

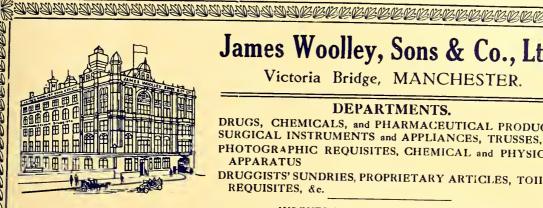


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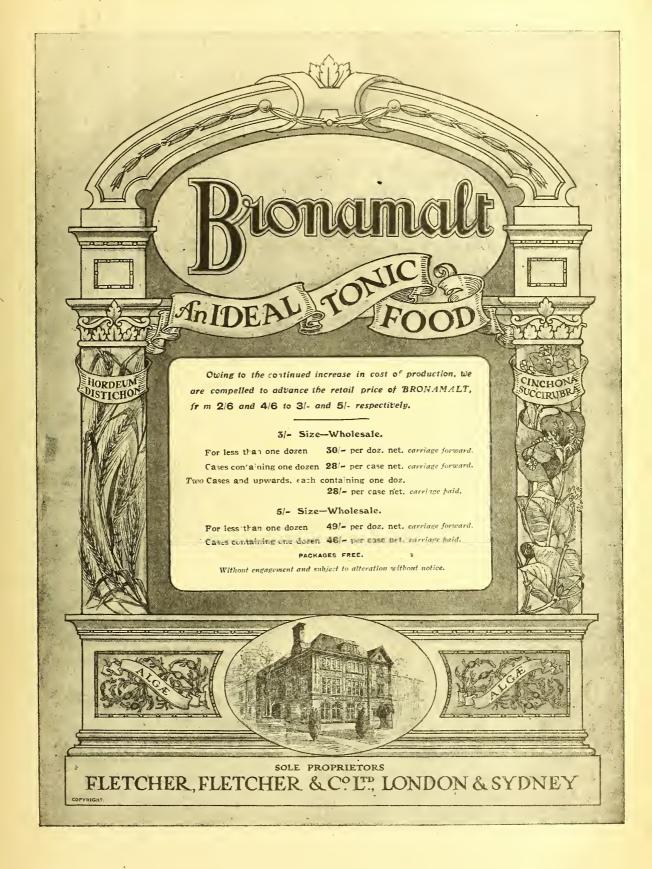
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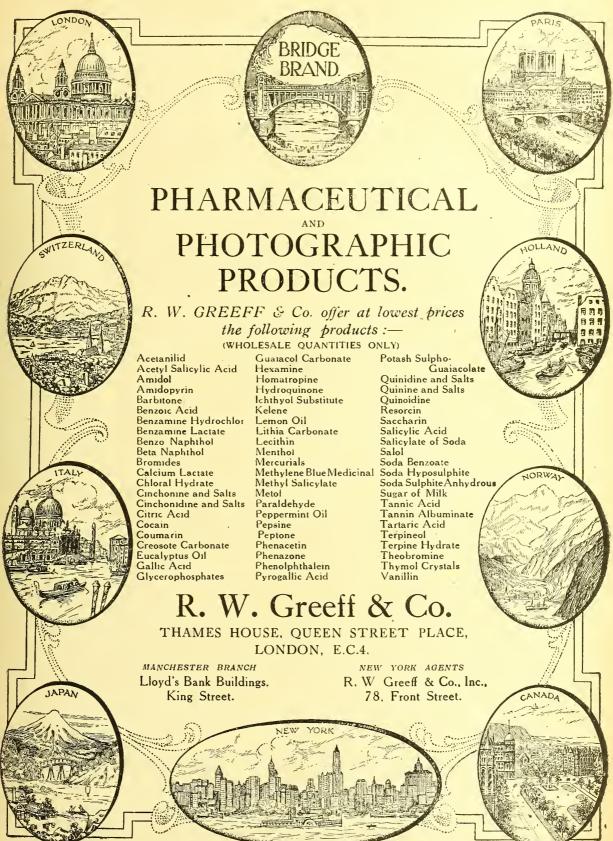
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Advertising and Reconstruction

No. I.

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Association of British Advertising Agents

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Birmingham Pharmacists

live up to the motto on their Civic Crest

"Forward"

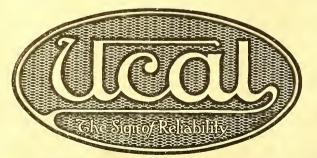
Over Seventy of the most progressive Pharmacists in Birmingham are Ucalites. Not only this, but they combine—they co-operate—act together in advertising—a splendid example to their fellows. And this is not a temporary wave of enthusiasm but a settled business policy with them. They get results—that explains it—and, as farsighted business men, they keep it up. It has become a habit—a truly constructive habit. They are doing business not for to-day alone but building for the future.

Other centres may well copy—indeed, many have done—large and small—and others are about to commence. Such is the fine progressive spirit that Ucal evokes.

The Ucal waiting-list is the first step towards "getting in."

UCAL

CHELTENHAM











SUITABLE for either week-end or travellers' use, the handy and compact Razor Wallet depicted here should find a ready sale at this period of the year. Made of soft, pig-grained leather, to take two razors and strop.

Price, empty 4/6 each.

If required, these Wallets can be supplied fitted, as follows—

No. 1.—Containing two ½-in. superior "Swift" hollow-ground Razors, stropped ready for use, and one "Seal" strap Strop. Price 21/- each.

No. 2.—Containing two No. 11 Razors, 5-in. blades, and one "Vel-fin" Strop. Price 14/- each.

No. 3.—Containing two \(\frac{3}{4}\)-in, half hollow-ground Razors and "Champion" Strop. Price 11/6 each.





APRIL 3, 1920.

S.MAW, SON @ SONS, LTD

7-12, ALDERSGATE ST, LONDON, E.C.1, England



Mr. LOUIS K. LIGGETT

Founder and President of the United Drug Company, is now in England, and will address Rexall Agents at the following meetings:—

MANCHESTER, Midland Hotel. LONDON, Cannon Street Hotel.

Wed., April 7th, 2 p.m. Wed., ,, 14th, 2 p.m. Thurs., ,, 15th, 2 p.m.

GLASGOW, Grand Hotel, Charing Cross.

Wed., ,, 21st, 2 p.m.

DUBLIN, Shelbourne Hotel.
BELFAST, Royal Avenue Hotel.

Wed., ,, 28th, 2 p.m. Thurs., ,, 29th, 2 p.m.

There will be a complete display of Rexall products, and representatives will be in attendance.

All Rexall agents are cordially invited to these Meetings.

UNITED DRUG COMPANY

114 OLD HALL STREET, LIVERPOOL

PROFIT 26% ON SALE

ON A THIRTY-SHILLING PARCEL OF

WHELPTON'S

PILLS & OINTMENT

FACE VALUE.

Vegetable PURIFYING Pills	$9\frac{1}{2}$ d.	1/3	3/- per box
Vegetable STOMACH Pills	$9\frac{1}{2}$ d.	1/3	3/- ,,
Healing Ointment -		1/3	3/- ,,
Minimum Wholesale Prices	7/6	11/8	28/- per dozen.

P.A.T.A.

30/- ASSORTED ORDERS 5%

Your Wholesale House will supply at these prices. CASH WITH ORDER (Carriage Paid) if direct from

G. WHELPTON & SON, LTD.

HAMMERFIELD, HEMEL HEMPSTEAD.

A WORD OF WARNING

The Gillette Safety Razor, Ltd.

are aware that certain unscrupulous individuals are importing from the Continent fraudulent imitations of Gillette blades and are attempting to foist them on the unwary.

The Company therefore caution their friends in the trade against any offers to supply Gillette Razors and Gillette Blades other than through the recognised reputable houses, and especially warn buyers against offers made under the established and protected trade prices.

The Gillette Safety Razor, Ltd., will appreciate the co-operation of the trade in ridding the public of the scandalous fraud, and will prosecute with the utmost rigour of the law every case that comes to their notice.

Summary of a few cases instituted by the Gillette Safety Razor Ltd., under the Merchandise Marks Act. A number of other cases are now pending.

CASE 1.-DECEMBER 23rd, 1919.

Bow Street Police Court. Defendant was fined £20 and £10 10s. costs for selling spurious blades. All blades in stock confiscated.

CASE 2.-FEBRUARY 6th, 1920.

Mr. Justice P. O. Lawrence granted a perpetual injunction against suppli rs; ordered all infringing blades to be delivered up; enquiry as to damage and costs of action to be agreed or taxed.

CASE 3.-FEBRUARY 17th, 1920.

Mr. Justice Eve granted a perpetual injunction against s ppliers, and ordered all infringing blades to be given up; enquiry as to damage and costs of action

CASE 4.-FEBRUARY 17th, 1920.

Great Marlborough Street Police Court. Defendant

convicted of selling infringing blades. Fined £10 and £5 5s. costs.

CASE 5.-MARCH 5th, 1920.

Thames Police Court. Defendant, knowing the blades purchased in Germany to be spurious, was fined £5 5s. and £2 2s. costs. Blades confiscated.

CASE 6.-FEBRUARY 27th, 1920.

Customs Authorities at Dover seized post parcel ad ressed from Germany to defendant. Mr. Justice Russell granted injunction.

CASE 7 - FEBRUARY 20th, 1920.

Mr. Justice Russell granted an injunction against defendant who has fold infringing blades to the extent of some 3,620 dozen; ordered a renquiry as to profits, and costs of action to be taxed.

All information will be treated as confidential, and should be communicated to the GILLETTE SAFETY RAZOR, Ltd., 184/188 GT. PORTLAND ST., LONDON, W.1.

R. KIRKLAND, Managing Director.

Prices to the Public-Gillette Razors 30/- and upwards, Gillette Blades 6/- per doz.

Reliability of Results



"Eagle" Dyes For WOOL and SILK. For COTTON.

SHADES-

Black. Old Rose. Claret Red. Pink.

Light Green. Dark Green. Light Blue. Navy Blue. Lavender.

Orange. Brilliant Yellow. Dark Brown.

P.A.T.A. Prices-

Retail - $7\frac{1}{2}$ d. per pkt. Wholesale 60/- per gross

Before "Eagle" Dye-and-Tint was perfected for use in the household, a doubt existed as to the possible harmful effect of dyes. Acids found in inferior dyes which have proven harmful for delicate garments are eliminated from "Eagle" Dye-and-Tint, therefore it can be used with confidence, even by the housewife who has never used either dyes or tints before. The lustre of fresh, crisp newness will be restored by the use of "Eagle" Dye-and-Tint to the Garments, Curtains, or other articles dyed and tinted.

"EAGLE" DYE-AND-TINT are packed in one-gross attractive Outers, and are price-protected. Shade cards, Instruction booklets and Showcards are free.



SPECIAL OFFER!



We can safely say that no other firm in London has such a varied stock. Even if you are wanting a special line which we do not happen to have in stock, there is always an alternative one we can let you have.

The following are some of the lines we offer:

SQUAT KALIS, green, 2 oz. size.

KAY'S ESSENCES, green, 2½ oz. size.

KALIS, green, 4 oz. size.

KALIS, flint, 1, 2, 4, 6, 8, 10, 12, and 16 oz.

LIMES, flint, 2. 4, 6, 10, 12, and 20 oz.

LIMES, green, 1 and 4 oz.

MEDICALS, first and second quality, green, plain, and graduated, 4, 6, and 8 oz. Also tinted blue.

MEXICANS, flint, 1½ and 2 oz. sizes.

PANELS, green, 4 oz.

PANEL TOBINS, green, 2½ oz.

PANELS, flint, 1 and 2 oz. sizes.

VIALS, green, 1 and 2 oz. sizes.

VIALS, graduated, 1 and 2 oz. sizes.

VIALS, graduated, 1 and 2 oz. sizes.

VIALS, graduated, 1 and 2 oz. sizes.

And many more lines too numerous to mention.

Plenty of 4-oz. Medicals



TABLET BOTTLE

Ampoules
Aspirator Jars
Brills
Cannons
Douche Linings
Dropping Bottles
Emulsions
Feeder Tubes
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Syringes
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Test Tubes
Weighing Bottles



KALI

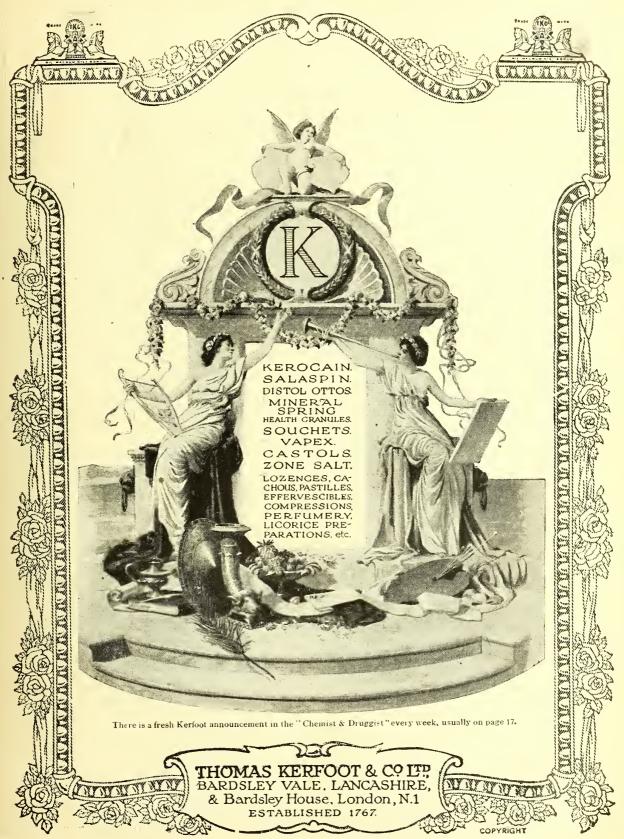
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THESE ARE JUST THE LINES YOU WANT.

"Leona" Series are of tip-top quality, beautifully packed, well advertised, leave you a good profit, and are on the P.A.T.A.



"LEONA"

CREAM DENTAL

(Mint or Thymol)

Small Size Cost 4/6 per dozen Large Size ,, 8/- ,, ,,

Sell @ 7½d.

Recommended by the Institute of Hygiene.

"LEONA" CREME DE BEAUTE

Cost 12/- per dozen Sell @ 1/6

A Delightfully Perfumed Vanishing Cream packed in handsome 2-oz. opal pots.

"LEONA" BRILLIANTINE (SOLIDIFIED)

Cost 8/6 per dozen Sell @ 1/-

Packed in beautifully embossed tins and cartons.

POUDRE "LEONA"

Cost 8/- per dozen Sell @ 1/-

Richly perfumed and packed in gold-blocked boxes.

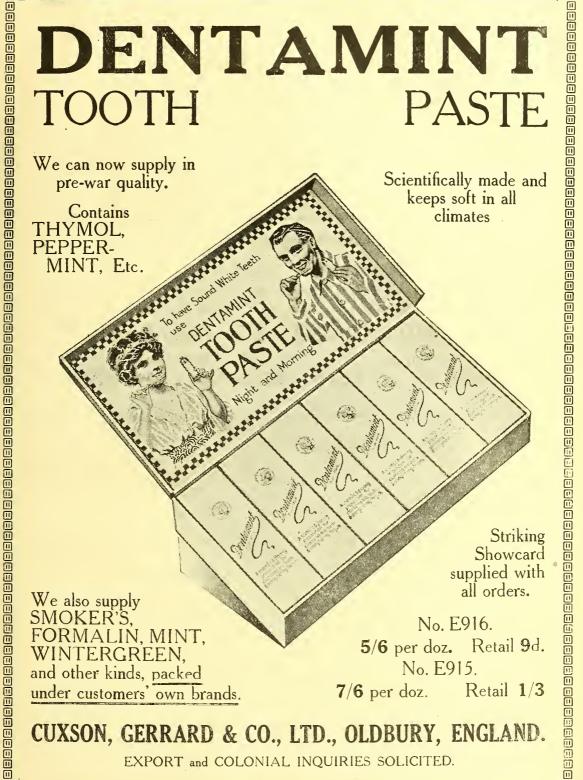
Every Line is a work of art.

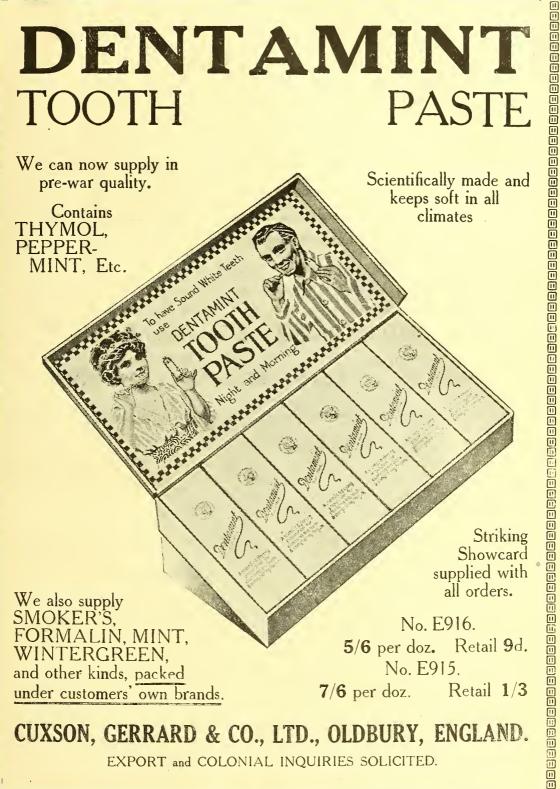
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YOU WON'T REGRET IT

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Loritol (Muguet), Ionone (Violette), Geraniol, Citronellol, Rhodinol, Chirassol, Phenylethyl, Alcool, etc.

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In the manufacture of our Terpeneless Oils it was imperative that we secured the very finest Sicillan Oils to work upon. After several exhaustive tests we came to the coorclusion that the "SPINI-LLI" brand of Sicillan Oils gave us the best results. As we were able to place large orders for cur own needs with the manufacturers, we have pleasure in stating that they have entrusted us with their British Agency, and we offer to users of Sicillan Oils the benefit of our experience. There is quality in every package. Guaranteed Genuine Oils of authentic origin, and to conform to any analysis as to purity.

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Write for our excellent Trade Terms. Window Show Offer, List and Samples

THE BALDWIN MANUFACTURING CO., LTD. 37 BERNERS STREET, LONDON, W.z.

30 NEW ACCOUNTS

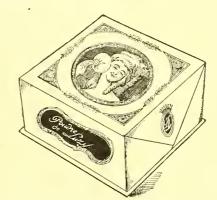
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POUDRE DE LUZY

Because the line is so obviously excellent in quality and value, we sold to nearly every chemist we showed it to.

WE PAY CARRIAGE ON ANY OPENING ORDER, SEND SHOWCARD AND FREE SAMPLES, AND WILL TAKE THE PARCEL BACK IF YOU DO NOT CONSIDER IT ALL WE CLAIM.

10d. size - - 6/8 dozen 1/9 , - - 14/- , 3/3 , - - - 26/- ,,



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- The SHYB Parfumerie of Pacaut et Cie is a scientific production, distilled from the choicest blooms, and possessing the charm of bouquet and fragrance associated only with the most highly distilled scents.
- Please write for particulars and price list of the many varieties of perfumes. Exceptionally good trade terms. A large public demand is being created by press advertising.
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WHOLESALE ONLY.

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24	THE CHEMIST	AND DRUGGIST APRIL 3, 192	10 1 <u> </u>
	A. BOURJOIS	S & Cie, Ltd.	
	66 CARTER LANE	- LONDON, E.C. 4.	
	Please note that from	this date the prices of	
	Poudre de Riz d	le Java (Bourjois)	
	are as	under:	
	1/6 size. No. 45	1/2 size. No. 495	
	A	1 doz 10/- per doz.	
	6 ,, - 12/9 ,,	6 ,, - 9/9 ,,	自
	12 ,, - 12/6 ,,	12 ,, - 9/6 ,,	昌
		Powder have been increased to 2 per box.	
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The Perfect Paste with the Pleasant Flavour.



Dental Paste

A Perfect Dentifrice. Pleasant to the taste. Profitable to the Retailer. Retail Price, $7\frac{1}{2}d$. and 1/3.

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Why <u>Euthymol</u> Tooth Paste?

Sales of Euthymol Tooth Paste have increased enormously during the last few years, and possibly the pharmacist, occupied in securing his individual share of this satisfactory business, does not stop to realise what this increase means.

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The sale of Euthymol Tooth Paste is thus doubly satisfactory.

Its merit

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TOOTH PASTE

"STRONG" OR "MILD"

THE SUPER PASTE

"ENOLIN" IS ALSO SUPPLIED IN POWDER FORM, 6d. and 1s. TINS.

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Patent Nos. 4931 and 4932.

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B. quality Brown Fur, 3/11

each,

Retail.



G. quality
Grey Fur,
4/6
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Additional Powder Bags, 6d. each, Retail.

Revolution in Powder Puff Manufacture.

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The Cream Soap "Exquisite"

WILL MAKE YOUR FACE A PICTURE

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Your own formula prepared, or we can supply ingredients if desired. Send for samples and quotations.

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ESSENCES, SOLIDES and LIQUIDS from flowers.
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established fact. Each week
the sales increase. Each
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Have YOU a share in this Prosperity?

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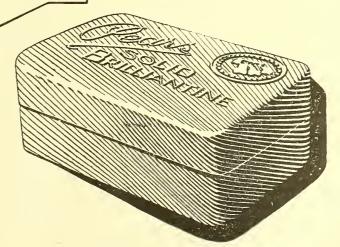
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A. & F. Pears, Ltd., 71 - 75, New Oxford St., London, W.C. 1

PROTECTED RETAIL PRICE

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No. 2.
ANZORA CREAM for greasy scalps and ANZORA VIOLA for dry scalps, of all wholesalers.

DISPLAY SHOWCARDS and increase your sales.

We will forward you the showcard illustrated if you will write to us stating the number you require. Besides selling quickly and easily Anzora gives you a good margin of profit. Do not stock substitutes. Trade terms on request.



Masters the Hair.

Anzora Perfumery Co., Willesden Lane London, N.W.6.

Your Customers

will insist on the

Evan Williams'

SHAMPOO

having been taught by experience. Are you ready to meet their demands? Stock moves freely at a handsome profit.

Full particulars are included in The SHAMPOO SALESMAN, which is sent free on request.

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"Jackel's Cream"

(without Grease)
for THE HAIR

Sold everywhere

Established 1883.

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"Jackel's Cream" fixes the hair in any desired position; is unexcelled as a dressing and does not soil the headware. It removes Scurf and Dandruff, keeps the scalp healthy, and promotes the natural growth of the hair while maintaining its softness and brilliancy.

Prices for Wholesale and Experi Houses on application.

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Sauchiehall Street

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CRYSTALLISED 1/9 CREAM 2/6

Trade Mark attached to each bottle.



SPEROL THE HAIR FOOD

MISS GLADYS COOPER USES IT, AND SAYS IT IS THE FINEST HAIR TONIC SHE HAS EVER USED.

The bottle is an ornament to any showcase.

Very attractive pictorial showcards. Wholesale prices leaves a good margin.

THIS PREPARATION IS BEING EXTENSIVELY ADVERTISED IN THE ILLUSTRATED WEEKLY PAPERS.

Write to the Sales Manager,

The Richmond Pure Drug Co., Richmond, Surrey.

KEENOLIA Hair Cream.

Shows you 50% Profit on Sale.

Our Advertising is attracting New Customers Every Week.

ARE YOU SHARING IN THE PROFITS?

MADE UP IN TWO SIZES:

4 oz. - per doz. 7/6 min. retail 1/3 8 oz. - ,, ,, 12/- ,, ,, 2/-

Attractive Showcards supplied GRATIS.

From all Wholesalers, or direct from Manufacturers.

ORMSIDE CHEMICAL CO.

57 POLAND STREET, LONDON, W. I.



A LINE WORTH HANDLING

Balmoline No. 1.

Solidified cream put up in a new and handy form. A first-class product neatly and attractively packed, well advertised, and showing a living profit.

Balmoline No. 2.

A more concentrated preparation with soothing and refreshing astringent properties. Relieves aching and tired feet in a few seconds. Unequalled for insect and mosquito bites.

PRICE 10/- PER DOZ.

On a 6-dozen order a bonus of one dozen and free advertisement in your local paper.

Balmoline sells at 1/3

Carriage paid on all quantities. Plenty of highclass show matter supplied. Send for particulars of Balmoline at once, it is a sure repeater, sells itself, and brings a handsome profit.

Balmoline Manufacturing Co. 10 Railway Street, CHATHAM.

DEARBORN

37 Gray's Inn Road, LONDON, W.C.

Toilet Specialities.

		r	er doz.	Selling Price
PILENTA SOAP	•	- to	Retailer. P.	1/–
PROLACTUM For the lips.	-	-	10/-	1/-
PARSIDIUM JE For wrinkles.			10/–	1/-
ALLACITE of O	RAN OSS(22/6	2/6
BORANIUM A hair tonic.	-	-	22/6	2/6
CLEMINITE For a face lotion.	-	•	22/6	2/6
COLLIANDUM For a face tint.	•	-	22/6	2/6
PERGOL - A deodorant.	•	•	22/6	2/6
STALLAX - For a shampoo JETTALINE	-	-	22/6	2/6 3/6
For clearing the skin. PHEMINOL	-	_	31/6 36/-	4/-
A depilatory. MENNALINE		4	36/-	4/-
For the eyelashes. MERCOLIZED	WA2	ζ	31/6	3/6
A face cream. STYMOL -	-		36/-	4/-
For oily complexions and BARSYDE -	blackhe -	ads.	22/6	2/6
Dandruff eradicator. TAMMALITE For grey or faded hair,	-	-	22/6	2/6
LIQUID PERGO	Liration	locali 4.	31/6	3/6
BICROLIUM For whitening the hands.	-	-	22/6	2/6
HARAPOSA - Nut oil shampoo.	-	•	22/6	2/6

STOCKED BY ALL WHOLESALE HOUSES

COLONIAL DEPOTS AND AGENCIES.

AUSTRALIA:
ALL WHOLESALERS and
DEARBORN, Ltd., Grace House, Clarence Street, Sydaey.

SOUTH AFRICA: LENNON & CO., Ltd. (Case Towa) SIVE BROS. & KARNOVSKY Ltd. (Johannesburg)

REMP & CO. Ltd. (Bombay).

R. MACLURE (Madras).

SMITH, STANISTREET & CO. (Calcutta).

MEHTA BROS. (Calcutta).

JAMNADAS BROS. (Bombay).

NEW ZEALAND: SHARLAND & CO., Ltd. (Auckland & Wellington). BOUTH AMERICA:
DEARBORN, Ltd., Calla Salta 264, Buenos Aires.

SALES BEAT ALL RECORDS.

Indian Perfume Brick

KEEPS AWAY MOTH. LASTING & FRAGRANT.



FOR LINEN CUPBOARD AND WARDROBE.

On the P.A.T.A.

Retail Price 6d.

Of the Makers:

WILLIS, LOW & DRUIFF, LTD.,

6 Mortimer St., London, W.

AND ALL WHOLESALERS.

The Dye with a Reputation for reliability.

COURT HAIR

SEVEN SHADES.

1/6 size 12/- doz. 2/6 size 18/- doz. P.A.T.A.

The only d e giving a natural gloss to the hair. rom all wholesalers or direct

J. KNOX-WALKER & Co., Ltd., 422 Kingsland Rd., London E. 8.

John E. Raworth & Moss

Chartered Patent Agents.

The Old Mansion House, AND Queen Anne's Chambers, 73 Cheapside, E.C.2. AND Westminster, S.W.1.



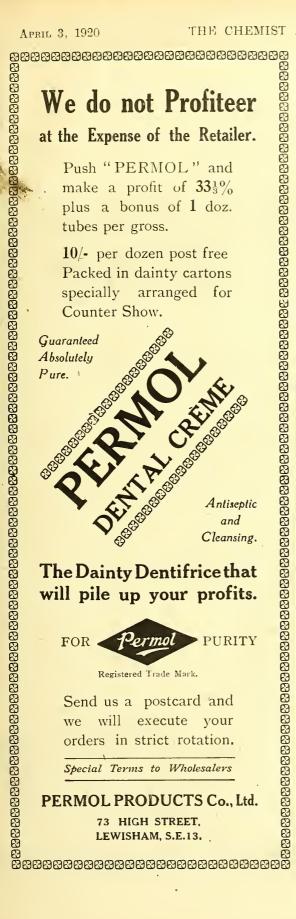
FOR THE HAIR is sold in all parts of the United Kingdom.

Sales run into millions anaually. Reduced.

These prices are strictly net. KOLENE has a rapidly increasing SALE.

one of our travellers to call, or order direct from

The KOLENE CO., 206 Stewart's Rd., London, 8.W.







Holborn Bars, London, E.C. 1. PROPRIETARY LINES

DECOLTENE 30/- 3/9
The Liquid Hair Remover
DINKIE 20 - 2/6
The Dainty Deodorant
DIADEM VANISHING CREAM 30/- 3/9 In "snowball" Jars
DIADEM FACE POWDER - 20/- 2/6
In six shades
DIADEM WAX 20/- 2/6
DIADEM CREME ROUGE - 20/- 2/6
For Cheeks and lips
DIADEM TALCUM POWDER - 10/- 1/3
DIADEM EAU DE COLOGNE—
1 oz 14/- 1/9
2 oz. $\frac{26}{3}$
4 oz 48/- 6/-
DIADEM LILY-MILK SOAP - 16/- 2/-
Magnum Tablets. Beautifully packed
DIADEM BATH SALT
CONCENTRATES 12/- 1/6
DIADEM TROPICAL HAIR
Dispels flies and insects LOTION 36/- 4/6
DIADEM "PARFUM SEC" - 16/- 2/-
A powder perfume. In 10 odours
DIADEM OXYGENATED BATH
SALTS 20/- 2/6
DETERPEX OIL SOLUBLE ESSENCES
DETERPEX OIL SOLUBLE COLOURS

For the manufacture of Brilliantines, Toilet Paraffins, etc.

OBTAINABLE FROM ALL ::

LEADING WHOLESALE HOUSES

STAND 15.

Chemists' Exhibition

Northampton Polytechnic Institute.

April 12—16.

Gachard Soap Amber Package Cachard Soap

Reserved exclusively for Chemists.

Price's Zinco-Cream Soap

has proved to be a popular, profitable and ready-selling article.

The Composition of

Zinco-Cream Soap

(Oxide of Zinc, Sulphur, and Lanoline)

renders it most suitable for Nursery use and for the treatment of delicate and sensitive skins.

In 3, 6 & 12 Tab. Boxes.

AN IDEAL SPRING TOILET SOAP.

With a most effective showcard.



Further details on application, : with : sample if desired.



PRICE'S Battersea, LONDON.S.W.II

HAIR

PRICES:

Small Size.

30/-

per dozen.

3/6

per case.

PERMANOL

THE NEW SUPER

PRICES:

Large Size,

84/-

per dozen.

Retailing at

12/6

per case.



PUT UP in 36 distinct natural colours, classified in 6 different series of 6 numbers each.

Each series is composed of the same ingredients and assists in choosing a darker or lighter shade of the same hue.

1st Series-THE BROWNS-from Jet Black to Light Brown.

- Jet Black
 Black
 Darkest Brown
- Dark Brown
 Brown
 Light Brown
- 2nd Series-THE WARM BROWNS-from Warm Black to

Light Warm Brown. Warm Black

- Darkest Warm Brown Dark Warm Brown
- 10 Medium Warm Brown
 11. Warm Brown
 12. Light Warm Brown

3rd Series-THE ASHY BROWNS-from Ashy Black to Light Ashy Brown.

4th Series—THE AUBURNS—from Darkest Auburn to Lightest Auburn.

- 19. Darkest Auburn
 22. Auburn

 20. Dark Auburn
 23. Light Auhurn

 21. Medium Auhurn
 24. Lightest Auhurn

 5th Series—THE ASHY
 BLONDS—from Darkest Ashy Blond
- to Light Blond.
- 25. Darkest Ashy Blond 28. Light Ashy Blond 29. Blond 29. Blond 30. Light Blond 6th Series—THE GOLDENS—from Darkest Golden Brown to Extra Light Golden Blond.
- Darkest Golden Brown
- Ashy Black

 16. Ashy Brown
 Darkest Ashy Brown
 Dark Ashy Brown 34. Golden Blond35. Light Golden Blond36. Extra Light Golden Blond

A GREAT PUBLICITY CAMPAIGN is now being projected by

IN ALL THE LEADING PAPERS TO THE EXTENT OF IT WILL BENEFIT THE TRADE. IT WILL BENEFIT YOU.

It is the greatest advertising scheme ever connected with HAIR COLOURING. The scheme is thoroughly organised, being arranged in three parts, each of which will go forward at a specified time in the following order:—

PAMPHLETS for Public

SHOWCARDS For Counter or Window Display RANGES OF COLOURS the thirty-six PERMANOL Shades

From OSBORNE, GARRETT & Co., LTD., 51 Frith Street, London, W.1; CALMON & NEATE, 8 Gerrard Street, London, W.1; HENRY SERVENTY, 51 Great Marlborough Street, London, W.1; HOVENDEN & SONS, LTD., Berners Street, London, W.1; TITTERTON & HOWARD, 10 Great Titchfield Street, London, W.1, or direct from the Manufacturers,

LTD., GEE'S 10 COURT, LONDON, WE ARE ACTUAL MANUFACTURERS OF

POWDER PUFFS

Send for Price List of our Special Lines of Wool Pads and Mignonnettes.

WHOLESALE AND EXPORT ONLY.

BRUSSELS.

THEO. VAN DER HEYDEN,

118-122 HOLBORN, E.C. 1. Tel.: Holborn 1873.

PARIS:

17 Rue de la Grange Batelière.

Eau de Cologne Corkscrews

3

FRANK A. CONDUIT, SUTTON HOUSE, 2 OLD STREET, LONDON, E.C. 1.

WE ARE THE ACTUAL MANU-FACTURERS of the following lines—

DRESSING COMBS MANICURE SETS HAIR ORNAMENTS BRUSH BACKS

(For Brush Manufacturers).

All our Articles are GUARANTEED NON-INFLAMMABLE.

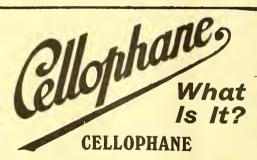
Wholesale and Shipping only supplied.

MYERS, LUMOS & Co.

FACTORIES— SILINGTON, N. FINSBURY PK., N.

SALES OFFICES—
35/6 Aldermanbury,

BURY PK., N. LONDON, E.C. 2. Phone: CITY 3526 (3 lines).



is a transparent film of pure Cellulose, absolutely air, grease, and odour proof, unaffected by cold, heat, or moisture, and sterilisable.

An ideal wrapping for Drugs, Tablets, Bath Crystals, Perfumery, Provisions, Sweets, Surgical Dressings, Articles of Toilet, &c. &c.

Will keep your Goods, Boxes, Bottles, and delicate Labels **clean** on the Counter and in Shop Windows, allowing the Articles to be seen **by transparency**. Can be had colourless, coloured and embossed.

Also in the shape of Discs for Creams, Oint ments, Boot Polish, &c.

Prices, Samples and Particulars from

The CELLOPHANE COMPANY

(LECLERCQ & CHARÉRAT),

15 Cullum Street, London, E.C. 3.



GUARANTEED FREE OF ANTHRAX.

Shaving Brushes.

FRENCH-MADE.
DELIVERY from LONDON STOCK.

Camel Hair Pencils and Mops, Iodine, Throat and Tube Brushes, Hypodermic Syringes (French).

POCKET & DRESSING COMBS MANICURE SETS (Ivory and Ebony) and Requisites TOOTH and NAIL BRUSHES

We supply Wholesalers only.
No Retailers.

A. E. DEPRETER

24 Holborn

LONDON, E.C. I.

Telephone: Holborn 3182. Telegrams: "Aedeprelon, Smith, London."

G. B. KENT & SONS, LTD.

Are known the World over as the Largest Manufacturers of

> BEST RITISH RUSHES

Please write for full Particulars to-

75 Farringdon Road, E.C. 1.

WILLIAMSON BROS.



Puffs, Combs, Brushware, Manicure Sets & Sundries.

Extract from C. & D. of Jan. 10th - - - "They have been able to obtain some lines which show excellent value for money."

54 LOWER THAMES STREET, E.C.3.

Phone: Avenue 5827



"A combination and a form indeed
To give the world assurance."
HAMLET.

THE LICENSES & GENERAL INSURANCE COMPANY,

24 Moorgate St., LONDON, E.C. 2.

HIGH-CLASS BRITISH MADE

SAFETY

Supplied FROM STOCK—NO WAITING

Price from 45/- doz.

Complete in case with sheaths, etc.; sample on receipt of P.O. 4/Special quotations for quantities.

LONDON RAZOR CO., 102 Boleyn Rd., E. 16.

THE

British Glass Blowers

LIMITED

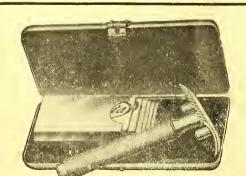
Birnam Works, Birnam Road, Tollington Park, LONDON, N. 4.

Telephone No.: Hornsey 2247. Telegrams: "Britglablo, Finspark, London."

HAND-MADE, FURNACE AND GAS BLOWN CHEMICAL AND SCIENTIFIC GLASS WARE

Of every description made by Highest-class British Labour.

Inquiries and Orders promptly executed.

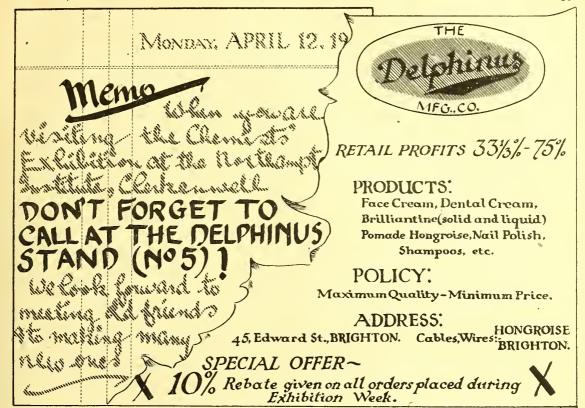


SAFETY RAZORS

British Made.

Numerous patterns, suitable for all markets. English or Foreign catalogues on application. We are the largest makers in Great Britain.

ROWLAND HODGES Ltd., Birmingham, Eng.





USED BY ROYALTY. B'A

The only Perfect Liquid Nail Polish.

MADE IN TWO COLOURS, ROSE AND NATURELLE.

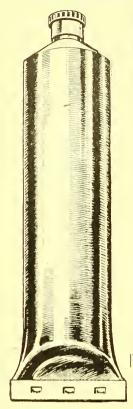
Kraska	Nail	Polish		small	9/6	per doz.	Retail	1/2	each.
,,	,,	,,	n	edium	12/6	à	• • •	1/8	,,
,,	19	**	• • •	large	19/-		• • •	2/9	,,
**		Balm			10/-			1/2	,,
,,	Bleac	hing Fl	uid		10/-			1/2	1*
2>	Cutic	le Crea	m		10/-	•••		1/2	,,

Obtainable at All Wholesale Houses.

FRANCISCO MAYER,
Casilla 2869, Santiago, Chili.
C. E. COLLINGE & CO.,
143 Cannon Street, London, E.C.4
China & Straits Settlements.
Other Agents Entertained.

Mr. J. WINKEL, 21 Bierkade, The Hague, Holland. A. E. & F. TOLLEY, Ltd., 26 King Street, Sydney, N.S.W. Australia, New Zealand, India.

7 BLENHEIM STREET, NEW BOND STREET, LONDON, W.1.



Tubes that attract

Let your collapsible tubes be more than mere containers

REMEMBER—the prospective customers see the tube first. When you are ordering your next supply get Venesta Tubes, they have that quality and finish that is going to help you sell the goods.

Made in pure tin, lead, and lead coated with tin, plain, enamelled and printed with designs to customers' own requirements.

Write for particulars and current prices—your inquiries will receive our immediate attention.

TIN FOIL

..........

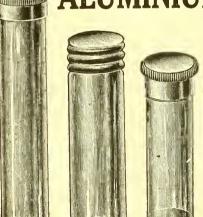
We also manufacture Tin Foil in sheets or reels, highly polished, plain, embossed or coloured, and suitable for every purpose.

Collapsible Tubes 1. Great Tower Street, London E.C.3.

YOU WILL HALVE YOUR BILLS FOR

GLASS TUBES, GLASS BOTTLES





by placing your contracts with us.

Astonishing Low Prices
Quick Deliveries

INQUIRIES SOLICITED



The Anglo-Argentine Export and Import Co., Ltd.

Telephone: Av. 5238.10 PHILPOT LANE, LONDON, E.C. 3. Telegrams: "ENREDAMIC, GRACE, LONDON."











Collapsible Tubes Sprinkler Stoppers

PLAIN AND PRINTED.

FILLING & CLOSING MACHINES

METAL CLIPS for ends of Tubes and MACHINES for fixing same.

SCREW CAPS, METAL TOP CORKS, etc., etc. Inquires invited.



24 CITY ROAD Finsbury Square LONDON, E.C. 1

W. LUSTY & SONS,

TELEPHONES: EAST 755, 1620, 4200, 4201.

OFFICES:

110/116 UPPER NORTH STREET, POPLAR, E. 14. TELEGRAMS:
"COMPARISON, POP, LONDON."

WORKS:

Russia Wharf & Saw Mills, BELL RD., BROMLEY-BY-BOW, E. 3, and Eastern Saw Mills, POPLAR, E.

PACKING CASES

FOR EXPORT & HOME TRADE.

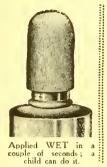
WOOD BOXES AND TRAYS DESCRIPTION Partitioned Cases & Crates Benches, Tables and other Joinery Shooks and Prepared Sawn Wood

Specialities:

LINDERMAN JOINTED SHOOKS.

CHEAP, NON-RETURNABLE, COLLAPSIBLE CASES FOR HOME TRADE.

PROMPT DELIVERY



CEMRE BOTTLE CAPPINGS

(SELF-FIXING, AIR-TIGHT, OIL-PROOF) further commend themselves to your notice for the ELEGANT APPEARANCE they add to any bottle on which they are used. Any size or shape of cork, stopper or sprinkler fitted. EASE of APPLYING means a SAVING of COSTLY LABOUR. Details with pleasure.

THE VISCOSE DEVELOPMENT CO., Ltd., BROMLEY, KENT.



See Demonstrations of Capping at the Chemists' Exhibition, STAND 25.

REDUCE PRICES

CAPPING SKINS

WHITE AND COLOURED SPLITS, OPAQUE AND TRANSPARENT BAUDRUCHE. SPRINKLERS.

ARTHUR TOOMBS & CO. Perfumers' Sundriesmen,

26-27 Bush Lane, Cannon St., LONDON, E.C.4.

Telephone: Central 13374.
Telegraphic Address: "Deflection, Cannon, London."

WHITE FLINT BOTTLES

OF ALL DESCRIPTIONS UP TO 8 oz. IMMEDIATE DELIVERY.

TABLET BOTTLES, VIALS, TOBINS. PANELS. KALIS. WIDE-MOUTH ROUNDS.

Inquiries esteemed for lettered and special-pattern bottles

HERBERT M. LONGCROFT & CO. LTD. 16 Clerkenwell Road, LONDON, E.C.1

WE ARE NOW MANUFACTURING EVERY VARIETY

of

CAPPING SKINS

R. LECONTE & CO., 7-8 South St., LONDON, E.C.2

Established 1889.

Phone: London Wall 5072.

.

ALTERATION OF PRICES

April 1, 1920.

OWING to a further rise in the cost of bottles, material generally, and the advance in Railway Rates, we are reluctantly compelled to raise the price of the 6d. and 1s. sizes to the Wholesaler, Retailer and Public; but it will show, however, both Wholesaler and Retailer a still larger profit on the 6d. size. On and after the above date the prices will be as follow:—

6d. size: Price to Wholesaler from 40/- to 42/- per gross.

Minimum Price to Retailer, from 3/9 to 4/- per
dozen. Minimum Price to Public, from 5d. to 5½d.

1/- size: Price to Wholesaler from 72/- to 77/- per gross.

1/- size: Price to Wholesaler from 72/- to 77/- per gross.

Minimum Price to Retailer, from 7/- to 7,6 per
dozen. Minimum Price to Public, from 10½d. to 11d.

Minimum order at wholesale rates, one gross of 6d. or assorted order to same value, subject to the customary discount on quantities. Terms: one month current account. Carriage Paid on parcels of £2 2s. and upwards.

JOHN BOND'S "CRYSTAL PALACE" MARKING INK

75 Southgate Road, London, N. 1.

Are we Receiving your Orders for



Are we Receiving your Orders for

PRINTED MATTER



PUBLICITY WORK

If not, you are losing a valuable asset to your business.

LOSE NO LONGER

Write now for samples and prices; you will receive satisfaction that will be a lasting guarantee of our interest in the advancement of your business.

ALF. HARRISON & SONS

Advertising Specialists and Chemists' Printers

224 Burley Road - LEEDS.

Telephone: 26674. Telegrams: "Ideas Leed."

CLAIM

SPIRIT REBATE.

Keep a record of receipt and use as required in the Order, and obtain the repayment.

OUR RECORD BOOK IS

3/-

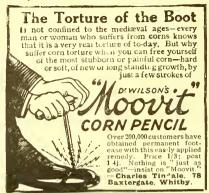
Post Free.

(See C. & D., Jan. 3rd, page 76.)

JAMES TOWNSEND & SONS,

EXETER and LONDON.

Style of Advert. in Local Paper.



Your Business advertised FREE for 12 months

YOU can have your business advertised free for twelve months if you agree to take up a Sole Agency for "MOOVIT" Corn Pencils.

• During the next few weeks we are going to appoint an Agent in every town in the British Isles, and we have decided upon the following offer.

I If you send an order for 12 dozen "MOOVIT" Corn Pencils, we will make you Sole Selling Agent in your district, and we will insert an Advt. (as above—with your name thereon) in the local paper for 52 weeks. In other words, you get twelve months' advertising FREE.

¶ And you do not require any special knowledge in order to successfully sell "MOOVIT" Corn Pencils, because our advertising in the Daily Press (together with the Advt. in your local paper, and your window display) makes the selling easy; and you get 5½d. on each stick you hand over the counter.

¶. Twelve dozen "MOOVIT" Corn Pencils at $9\frac{1}{2}$ d. each cost £5/14/0, you sell them at 1/3 each, thus making a profit of £3/6/0. They are attractively packed in display boxes, with striking posters. dummies and advertising matter.

• We guarantee to buy back any unsold Corn Pencils in your stock-room at the end of the twelve months if you feel you cannot dispose of them.

 \P Isn't that a fair offer? Then send along your cheque for £5/14/0 NOW, before your competitor gets the agency.

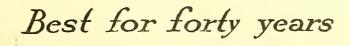
Sole Manufacturers:

TALBOT WILSON

(Howard Stevens & Co., Ltd., Proprietors)

20 Highgate Road, LONDON, N.W.5.

Registered Trade Mark



Sanitary TOWELS

T is regretted that the greatly increased cost of cotton necessitates a slight advance in the price of Southalls' Towels. The following alterations will take effect on and from April 1st, 1920.

SOUTHALLS' TOWELS.

SOUTHALLS' WASHABLE TOWELS.

Size 1w 2w 3w
Retail 8/- 11/- 14/6 per doz,
Trade 6/2 8/6 11/2 per doz

The prices of Southalls' compressed towels remain unaltered with the exception of size "O" towel ${\bf 20}\%$ the handsome profit on returns is shown of ${\bf 25}\%$

Our New Catalogue, containing revised prices is now in the press, and will shortly be distributed to the Trade.

Southause

Southall Bros & Barclay, Ltd

Charford Mills, Saltley, BIRMINGHAM

DO YOU SELL over ONE GROSS of CORN SILK WEEKLY?

There is no reason at all why you should not do so. Probably you are stocking the old-fashioned flat envelope which is so difficult to effectively display and have no showcards or display ideas.

Silkum is a plaster on silk, packed in a carton which also contains adhesive discs to keep the plaster in position. This year we have re-designed both the carton and show-matter, the new colours being Royal Blue, Black and Gold, a particularly attractive and pleasing combination. We are also preparing an entirely new complete window display which will be sent as soon as ready to all customers who have purchased one gross and over this year, this will be in addition to the showcards, etc., we are now sending out with all orders.

Only one chemist supplied in each district, so write us for the agency now.

per 42/- gross.



Exact size of carton

Retails

 $7^{1D}_{\bar{2}}$

Your profit on each packet is

4^D

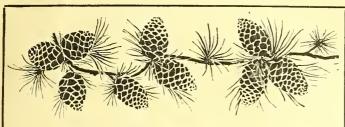
Write for our new Catalogue and Price List

W.B. Cartwright, Ltd.
RAWDON near LEEDS

Australia-

297-299 Castlereagh Street, SYDNEY. 326 Flinders' Lane, MELBOURNE. New Zealand-

161 Hereford Street, CHRISTCHURCH. Wright's Buildings, Port St., AUCKLAND.



REGNAS CORN RAZOR

WILL

CUT IT OUT

Use when the corn is dry,
The harder the better—just try;
That's why you ought to buy

The "Regnas" Corn Razor.

ENGLISH MAKE.

FINELY TEMPERED BLADE.
EXCELLENT CUTTING EDGE.

THE "REGNAS"
CORN RAZOR
English Make

EXAMINE THIS ONE.

Facsimile Showcard.

A BRITISH ARTICLE IN STEADY DEMAND.

Each Razor sent out in manilla envelope, printed as sample shown at bottom of Showcard.

RETAILS AT

 $10\frac{1}{2}$ d. EACH.

Wholesale:

4/11

Dozen.

1-doz. lots, with Showcard, at

4/9

By Post, 4d. extra.



258 Euston Road, LONDON, N.W.1.

IOB BROTHERS GUARANTEDD BURD GENUIND NEW HOUNDIAND INONERREWANCE MEDICINAL COD LIVER OIL

It is perfection in colour, smell, taste and absolute purity. Manufactured from the finest fresh Cod Livers on same day as fish caught.

WAR (B) MDS AND BONDS

JOB BROS., Manufacturers, Tower Building, LIVERPOOL

Celegraphic Address : "JOB LIVERPOOL" Tel. :: 1039 CENTRAI

Established: 1780.

".John

And of ST. JOHN'S, N.F.



Bull "

MALT EXTRACT

COD LIVER OIL

Does not separate.

Wholesale & Export only.

PAINE & CO., LTD., ST. NEOTS, HUNTS.



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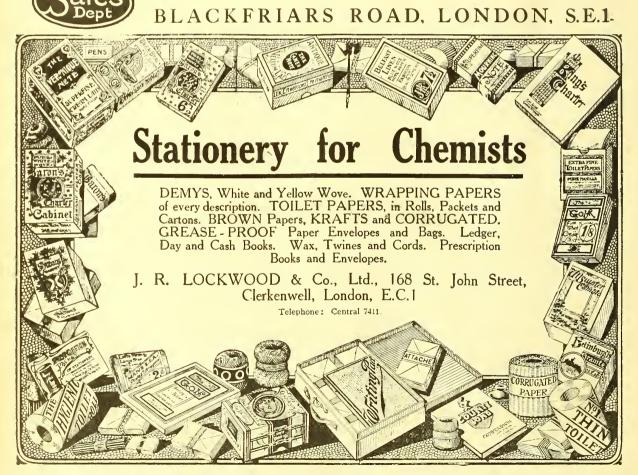
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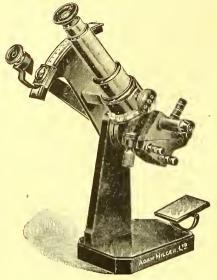
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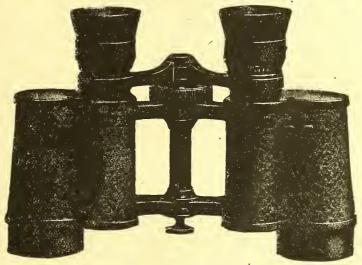


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The his The Lancet (March 20th, 1920) contributes the following historical note: -

"In September, 1914, Dr. W. H. Willcox was consulted by the Board of Trade in regard to the serious situation which had arisen, no Salvarsan being then available in England. Dr. Willcox, in collaboration with Professor Sir Herbert Jackson, F.R.S., and Professor A. W. Crossley, F.R.S., carried out a laborious investigation on samples of 'Kharsivan' submitted by Messrs. Burroughs Wellcome & Co., as a result of which it was established that this product, toxicologically and clinically, was practically equal to Salvarsan.

"Their report was issued on October 24th, 1914, and, following upon it, 'Kharsivan' was placed on the market.'

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THE growing and manufacture of mustard are, it is understood, being revived in Yorkshire, with Selby as a centre. A new company has been formed, and a standing order for the weekly delivery of several tons of mustard has been received.

FACILITIES FOR MILITARY TRAINING GRANTED. - Parke, Davis & Co., manufacturing chemists, Hounslow, have informed the officer commanding the 8th Battalion Middlesex Regiment that they are prepared to offer the following facilities to their employees who join the new Territorial Army to the extent of 10 per cent. of their male adult staff. (1) Time to attend full fifteen days' camp for men who have one week as holiday. During the first week they would draw their full pay, during the second week the difference between their Army pay and their civilian pay would be made up by the firm. the case of men with more than one week's holiday an arrangement on similar lines would be made. (2) Time to attend musketry course, which might involve an occasional week-day afternoon off. (3) If called up for service, ofter discharge the men would be taken back.

Experiences of the Great War.

Contributions to this section are invited.

XXXIV.—Three Years of Sight-seeing.

To me the Great War was more like a "Cook's Tour," for though I travelled some thousands of miles in the course of my three years on active (?) service, I did not hear a single shot fired. I enlisted in 1915, having been informed that qualified dispensers were urgently needed, and had the satisfaction of getting sergeant's rank before I left England, after six months depôt life as a private. My appointment was to an Indian hospital ship, and we reached Alexandria after ten days' voyage, where we spent a very pleasant time. We had two parades in the morning, but afternoon and evening was free time to us, and the usual programme was a swim in the afternoon and a walk or car-ride in the evening. I left to join a different ship at Suez, and after another ten days at sea we arrived at Bombay, where we had another four weeks' holiday while waiting for our own ship to be got ready. The first few trips were to Basrah, and, if time allowed, on returning to Bombay I obtained two or three days' leave. Emboldened by my successful applications and wishing to go further afield, I asked and was allowed to leave the ship for the duration of the following trip. I had previously used my short leaves to visit Poona, Dealali, Lonavla, Khandala, and such places in the Western Ghats from eighty to one hundred miles from Bombay, but this time I aspired to something big. I left Bombay on the night mail, and arrived at Madras about forty hours later. I spent a few hours seeing what



BAGHDAD.

I could of Madras, the fort, harbour, museum, etc., and in the evening resumed my journey, arriving early the next morning at Mettaypolyan, at the foot of the Nilgiri hills. After breakfast I joined the hill train, and ascended the most interesting bit of India I had ever seen. To a botanist it is of particular interest; starting from the plains, one leaves the palm-trees and comes to the tea and coffee plantations; as one gets higher the foliage becomes more plentiful and a lighter green, until on reaching Ferndale, Lovedale, and Ootacamund everything botanical has quite an English appearance, even to daisies and dandelions, while roses and arum lilies grow in abundance. The surrounding hills are covered with eucalyptus trees, and I was surprised to find that no attempts were made to obtain the oil from them. spent three weeks in that beauty spot, and then went to Dorgaum in the Kalar Goldfields, where I stayed until recalled to the ship. The next trip of importance was to Kilindini, the port for Mombasa in British East Africa, but I only managed to get enough time to visit Mombasa when we had orders to proceed to Zanzibar. A five days' stay there gave me enough time to see most of the island, including the clove plantations at Bu-bu-bu, and we were off again to Dar-es-Salaam and Tanga, two ports in German East Africa, where we received our usual cargo of sick and wounded Indians, and returned to Bombay. The trips following were varied with calls at Linga, Bunder Abbas. Bushire, and Koweit in the Persian Gulf, and occasionally to a quaint place called Muscat, which presented a beautiful appearance from the boat, especially at sunset. Then a chance run to Suez gave me an

opportunity I had long hoped for—to be able to visit Cairo and the Pyramids. On this occasion I was only able to obtain sufficient leave to enable me to spend twenty-four hours in Cairo, but I made full use of it, visiting Heliopolis, the Pyramids, the bazaar, and the Citadel. When the Armistice was declared I was transferred from the hospital ship to do duty on a troopship, and it was on that trip that I had my last "joy ride." At Marseilles the medical officer decided to transfer a case of suspected dysentery to hospital ashore, so I borrowed the ambulance-car, and after depositing my patient, persuaded the driver, with the aid of a bottle of biere, to show me around the city. I always took the hint when he pointed out an estaminet, It was well worth it. Eight days later I arrived at Plymouth and got my last leave of twenty-eight days, which terminated my career as a

SERGEANT-DISPENSER. (33/26.)

Corner for Students.

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C. 4."

QUALITATIVE ANALYSIS.

A MINTURE of not more than three salts will form the subject of the next exercise in qualitative analysis. The mixture will comprise acids and inorganic bases occurring in the British Pharmacopæia, and is to be submitted to a thorough systematic examination, all its constituents are to be detected, and proof is to be given that the substances detected are the only constituents of the mixture.

Students' applications for portions of the mixture of salts (accompanied by a stamped and addressed envelope, not a stamp merely) will be received up to Tuesday, April 17. Each report should entline a list of the constitu-of the work done, and should include a list of the constituents detected. In this list any substance regarded as an accidental impurity should be distinguished from the essential constituents of the salts composing the mixture.

The analysis announced above forms the final exercise in the analytical tournament for the current winter session. The usual monthly first and second prizes in this series of analyses will be awarded only to apprentices or assistants who are preparing for the Qualifying examination of the Pharmaceutical Society of Great Britain or of Ireland, which fact must be attested on their reports.

Coming Events.

Wednesday, April 7.

Pharmaceutical Society of Great Britain, 16 Bloomsbury Square,
London, W.C., at 11 A.M. Conneil meeting.

Thursday, April 8.

Leacester Pharmacentical Assistants' Association. Excursion to Zenobia Works, Loughborough, The Mayor will entertain the Association to tea, and, if time permits, the gasworks will be visited.

Friday, April 9.

Harrogute Pharmaceutical Association. Social evening.

REXALL MEETINGS.—An announcement of the United Drng Co. in the advertising pages of this issue gives the dates of several me tings of Rexall agents, at which Mr. Louis K. Liggett will

SHEFFIELD PHARMACRUTICAL STUDENTS' ASSOCIATION.—A fancy-dress ball will be held on April 15. Prizes will be offered. Tickets (4s. 6d. single, 8s. double, including supper) from Mr. I. Best, 55 Brunswick Street, or Mr. G. H. Needham, D.S.M., 105 Bankers

POOL UCAL FIDERATION (LONDON BRANCH).—The annual dinner will be held at the Connaught Rooms, Great Queen Street, London, W.C., on April 15, at 6.30 P.M. Evening dress, Tickets (12s. 6d. each) from the Sceretary, Mr. G. W. Evans, 239 Hammersmith Road, London, W.

London, W. London, W. London, W. London, Whist-drive and supper will be held at Pinoli's Restaurant, Wardour Street, London, W. On April 14, at 7 p.m. Morning dress. Tickets (6s. cach) from Messrs. B. R. Wilkinson, 23 Cromwell Place, London, S.W. 7, and W. Browne, 1 Avenue Parade, Finchley Road, London, N.W. 3.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked' copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

Wages Questions.
In our issue of March 20 (p. 46), reference was madeto negotiations then in progress between certain firms and companies of scientific-instrument makers and the National Amalgamated Union of Shop Assistants, Ware-housemen, and Clerks. It is now announced that a settlement has been reached between the Union and thefollowing: Townson & Mercer, Camomile Street, London, E.C.; Gallekamp & Co., Ltd., Sun Street, E.C.; J. J. Griffin & Sons, Ltd., Kingsway, W.C. The schedule of minimum-wage rates and general conditions submitted on behalf of the staffs has been adopted.

Poisonings.

Since our last report the following cases of fatal poisoning have been notified:

At Newington, London, S.E., Dr. Arthur S. R. Wainwright committed suicide by taking a solution of oxalic acid while of unsound mind.

While under arrest at Bow Street Police Station, London, Walter Morris, a barrister's clerk, committed suicide by taking a poison stated to be salt of lemon.

At Bournemouth, on March 30, a coroner's jury returned a verdict that death was due to "some narcotic poison," self-administered, in the case of an unknown man in whose room were found chloroform and a hypodermic syringe with a trace of cocaine. About sixty bottles full of "different kinds of poison" were said to have been left in the room.

The West London coroner held an inquest, on March 27, on the body of John Laverett Smith, The Grove, Hammersmith. The medical evidence showed that death was due to coma and acute nephritis, accelerated by taking laudanum. A son of the deceased stated that his father had been in the habit of taking sulphonal in addition. Mr. Samuel Ainsworth Sturton, Ph.C., Goldhawk Road, W., giving evidence, said that the deceased had been a regular customer of his for laudanum and sulphonal. He began to buy laudanum by the ounce, but the amount increased until it reached 5 oz. at a time. The requirements of the Pharmacy Act were carried out, and every purchase was signed for. The Coroner: Do not you think that the Pharmacy Act is too lenient in allowing the sale of 5 oz. of laudanum to a layman?—He had such a quantity two or three times. He was evidently a man who laid in a stock. Mr. Sturton added that in the Fens district people used to take laudanum by the half-pint, and corresponding quantities of opium. A verdict of and corresponding quantities of opium. "Death from misadventure" was returned.

Contracts.

The following tenders have been accepted by the bodies

Bishop's Castle Guardians .- Mr. J. E. Gwilliam, chemist and druggist, surgical appliances and cod-liver oil. Faversham Guardians.—Mr. T. J. Thomas, chemist

and druggist, drugs, etc.

Hemsworth Guardians .- Mr. G. Hodgson, chemist and druggist, drugs.

Hollingbourne Guardians.-Mr. F. J. Oliver, chemist and druggist, Maidstone, drugs.

Malling Guardians .- Mr. H. C. H. Oliver, chemist and druggist, drugs.

Metropolitan Asylums Board.—Burgoyne, Burbidges & Co., Ltd., Leslie's, Ltd., and S. Maw, Son & Sons, Ltd., druggists' sundries; Burgoyne, Burbidges & Co., Ltd., drugs; E. Cook & Co., Ltd., disinfectants; F. Marshall, clinical thermometers.

Birmingham.
Birmingham hotels are so crowded that commercial travellers are finding it difficult to obtain accommodation.

A local manufacturer has been fined for employing two girls below the age of fifteen without a doctor's certifi-

Strong protests were made against the further curtail ment of shopping hours at the annual meeting of the Small, Traders' Association at the Chamber of Commerce rooms on March 24.

The Corporation are negotiating for the acquirement of Heathfield Hall, once the home of James Watt. It has been proposed that the grounds should be laid out as a public park, and the mansion utilised as a Watt Museum.

The Midland School of Dental Technology, Corporation Street, is sending to members of the Chemists' Dental Society the syllabus of a two years' course of instruction (either oral or by correspondence). The fee is 261. 5s., exclusive of text-books.

The Birmingham city analyst, Mr. J. F. Liverseege, F.I.C., Ph.C., who has been assisted by ladies during the war, is advertising for an assistant (male), at a salary of 300%, per annum, subject to deductions towards a superannuation fund. The A.I.C. or the B.Sc. degree is required.

Liverpool.

Salines, pick-me-ups, and other seasonable lines, have been in enhanced demand during the Grand National

The majority of wholesalers here are closing from Thursday evening, April 1, to Tuesday morning. April 6. Retailers with perishable stocks will open on Saturday.

Mr. W. J. Williams, chemist and druggist, assistant local secretary of the British Pharmaceutical Conference, 1920, having passed the requisite examination, has been admitted to membership of the Chartered Institute of Secretaries. Mr. Williams is on the staff of Evans Sons Lescher & Webb, Ltd.

The paragraphs in a Sunday paper quoted in our last issue (p. 67) on the sale of methylated spirit by chemists have evoked some spirited replies. Mr. D. H. Evans, President of the Liverpool Chemists' Association, writes: "It is possible that the few cases that have come before the authorities of intoxication from alleged methylatedspirit drinking might have been caused by drinking 'finish,' a spirit largely used by French polishers and others. I can testify," he adds, "that the charge brought against chemists is quite unfounded.

At a meeting of the ladies' reception sub-committee of the British Pharmaceutical Conference at the Royal Institution on March 24, Mrs. A. W. Ashcroft (Algburth) and Miss Gardner (East Dispensary) were chosen as chairman and vice-chairman respectively. Miss Gladys Williams (Stanley Hospital) was appointed honorary secretary. Mr. William P. Evans, chairman of the reception committee, and other local officials, were present. An attractive programme was outlined. It has been suggested that short papers should be read at the Conference by Liverpool, Birkenhead, Bootle, Wallasey, and South-port members on business topics. Among the subjects suggested are: "Advertising," "Standard profits," "Clearance of old stock," "Pooling," "One-man business holidays," "Assistants, and how to keep them," and (last, but not least), "How can the British Pharmaceutical Conference be made more popular from the business point of view?"

Manchester.

The introduction to a report on "Coal Fires" has been published in pamphlet form by the "Air Pollution Advisory Board" of the city council. The pamphlet (written by Mr. E. D. Simon) states that the efficiency of a coal-fire is much greater than has been generally assumed. Tests with preparations—consisting generally of common salt with a small percentage of other chemicals-the use of which, it is claimed, doubles the value of a ton of coal, have proved that these preparations have no effect on the quantity of heat given out to the room from a given weight of coal.

Interviewed on the organisation of cotton research by a "Manchester Guardian" representative, Dr. A. W. Crossley, who was formerly professor of chemistry to the Pharmaceutical Society of Great Britain, said that "The Towers," a large mans on at Didsbury, has been bought

for the purposes of a library, council-room, general offices, and so forth. In the thirteen and a-half acres of grounds surrounding the house will be built the laboratories in which the research work will be carried out. As to the staff, steps are being taken for the appointment of heads of departments in chemistry, physics, botany, engineering, and technology. In concluding the interview, Dr. Crossley said: "It will be our object to reduce everything to a scientific basis. It is well known, for instance, that the climate of Manchester and district is damp and close, and it is generally assumed that this fact is to a certain extent responsible for the production of its fine goods. Is this the case? We shall find out." The office of the British Cotton Industry Research Association is at 108 Deansgate.

Sheffield.

Mr. Bernard Ellis, chemist and druggist, has taken up the profession of barrister-at-law again.

Members of our local students' association visited the gasworks on March 25, and were shown various processes in the manufacture of by-products.

A new set of carbon prescription books has been issued for Insurance prescriptions; chemists will be well advised to ask the doctors to exchange any old stock at the insurance offices.

Mr. A. Inger, chemist and druggist, Heanor, has purchased two businesses (at Upwell Street and Grimesthorpe Road) from Mr. A. R. Powell, chemist and druggist, who has taken a business in North Wales. Mr. Inger served his apprenticeship in Lincoln, afterwards going to the late Mr. C. F. Carr, chemist and druggist. He held a commission in the Derbyshire Yeomanry during the war.

Miscellaneous.

Poison-licence Application.-Mr. A. J. Wood (W. Wood & Son, Ltd.), Taplow, has applied for a licence to sell horticultural poisons.

Easter Holidays.—May, Roberts & Co., Ltd., 7-13 Clerkenwell Road, London, E.C. 1, inform us that the statement made under the above heading in our last issue concerning their closing for stocktaking was unanthorised

EARLY CLOSING ADRANGED.—The chemists of Warrington have decided to close, from April 1 to October 31, at 7.30 p.m. on Mondays, Tuesdays, Wednesdays, and Fridays; 1 P.M. on Thursdays; and 8.50 P.M. on Saturdays. For the rest of the year they will close half an hour later each day except Thursdays.

FIRES.—An outbreak of fire was caused at the shop of Mr. A. J. Wing, chemist and druggist, 69 Powis Street, Woolwich, London, S.E. 18, on March 25, by a spark from a locomotive. A store at the rear of the premises was damaged.—As the result of a defective furnace flue, a fire broke out at the premises of Johnson. Matthey & Co., Ltd., Leather Lane, London, E.C. 1, on March 26. The roof, ceiling, and contents were damaged.

COCAINE CASE.—At Marlborough Street Police Court, London, on March 30, the hearing of the case in which three men are charged with offences under Regulation 40B of the Defence of the Realm Act (C. & D., March 27, p. 68) was continued. Mr. John Carmichael, a Government analyst, gave evidence to the effect that powders found in the house in which the accused lived contained cocaine hydrochloride and milk-sugar. A bottle taken from one of the prisoners contained 3,024 gr. of a similar mixture. The men were again remanded.

A Public Analyst's Remuneration.—Lambeth Borough Council has decided to increase the salary of Mr. A. H. M Muter, F.I.C., public analyst, from 550l. a year to 800l. subject to his entering into an undertaking to abstain from making analyses for private clients within the borough or connected with the trade of the borough. Mr. Muter, in a letter to the council, pointed out that he had severed his business connections with all his private clients, and was now devoting his time and attention entirely to his public work.-Wandsworth Borough Council has also decided to increase Mr. Muter's salary as public analyst to that authority to 800%, a year.

Irish News.

Brevities.

Mr. W. M. Birmingham is to represent S. Maw, Son & Sons, Ltd., in Ireland as an assistant to Mr. Ridge.

It has been decided to increase the salary of Mr. MacHugh, dispenser to Athy Board of Guardians, to 120t.

The Mayo County Council has increased the salary of Sir Charles Cameron, county analyst, from 30%, to 40%, per annum.

At a meeting of the Council of the Belfast Chamber of Commerce, on March 26, Mr. James A. Macromac (Elliott. Thompson & Blair), wholesale druggists, Tomb Street, Belfast, was elected a member.

The Lord Chancellor has appointed Mr. McConville, R.D.. Crossmaglen, commissioner for affidavits for the petty sessions district of Crossmaglen, and intimates that he would also appoint him for the Forkill district if the local petty sessions clerk consented.

Drug and Surgical Appliance Contracts.

The annual contracts for the supply of medicines and medical appliances are now being declared by Irish Boards of Guardians. By order of the Local Government Board, all tenders should have been received by March 22, but Boards of Guardians are considering the tenders at their esual meetings as they arise. The bodies referred to in the following table are Boards of Guardians, unless otherwise specified. The figures given show the discount allowed on the respective tenders:

Union		Medicines	Surgical Appliances
Athy		Boileau & Boyd,	Clarke & Co., Ltd.,
Ballinrobe		Ltd., 15% Boileau & Boyd,	Boileau & Boyd, Ltd.,
Bawnbey		Ltd., 10½% Robert Burns, Bal- linamore, 2½% off	Boileau & Boyd, Ltd., 7½% off list prices
Carriek-on- Shanon		list prices Boil- au & Boyd, Ltd., 10%	
Claremorris		Boileau & Boyd,	Boileau & Boyd, Ltd.,
Castleblayne	2.	Ltd., $10\frac{1}{2}\%$ Boileau & Boyd,	Boileau & Boyd, Ltd.,
Dunshanghli	n	Ltd., 15% Live Chemicals, Dublin, 15%	Boileau & Boyd, Ltd.,
Dundalk		Summer & Co., Ltd., 225%	Clarke & Co., Ltd.,
Granard		Boileau & Boyd, Ltd., 103%	
Lisburn		Boileau & Boyd,	Clarke & Co., Ltd.
Lurgan		Boileau & Boyd, Ltd., 23½%	Clarke & Co., Ltd.,
Midleton		Boileau & Boyd, Ltd., 121%	Boileau & Boyd, Ltd.,
Naas		Sumner & Co., Ltd.,	Boileau & Boyd, Ltd.,
Nován		17½% Sumner & Co., Ltd., 17½%	Boileau & Boyd, Ltd.,
Old Castle		Sumner & Co., Ltd., 17%	Boileau & Boyd. Ltd.
Tobercurry	***	Sligo Drug Co., Ltd , 15%	Clarke & Co., Ltd.,

Irish Drug Contracts for 1919.

The annual report of the Local Government Board for Ire'and for March 31, 1919, contains the following, relating to drugs and surgical instruments and appliances: "The usual prescribed lists of medicines and medical and surgical appliances were issued in March 1918. The prices were still higher than in the previous year's lists; and contracts for the half-year (April-September 1918), based on the new lists, were entered into by the guardians. The discount obtained averaged for drugs 11.19 per cent., and for surgical instruments and appliances

17.63 per cent. With regard to the contracts taken by the guardians for November-March, although the prescribed prices had advanced considerably from the March figures the average discount was smaller, 8.52 per cent. for medicines, and 13.15 per cent. for appliances. One of the large wholesale firms, which had in recent years tendered for these contracts, felt unable to compete at all in 1918-1919, owing to the adverse conditions affecting cross-Channel traffic. The contracts were executed as satisfactorily as could be expected in view of the difficulties and upsets to trade, and the quality was invariably of a high order. The cost of the medical supplies for dispensaries for the past year amounted to 31,5451, and for workhouse hospitals and infirmaries to 15,7861. as compared with 26,2531 and 15,8755. for the preceding year, being a total increase of 5,2001."

Ulster Retail Drug-trade Association.

The annual meeting of the Ulster Retail Drug-trade Association was held on March 24 in the rooms of the Chemists' and Druggists' Society of Ireland, the outgoing President (Mr. W. J. Hardy) in the chair. There was a large attendance. Mr. J. C. Culbert submitted the annual report. The facilities afforded by the Association for the diffusion of information on trade matters had been largely taken advantage of, over two thousand letters having been written, and over three thousand telephone inquiries answered during the year by the hon. secretary. Two thousand eight hundred price changes had been advised to members. The report referred briefly to the strike of assistants during the year, and to various other matters assistants during the year, and to various order inactive of trade interest. The report was adopted, as was the statement of Mr. W. J. Rankin (hou, treasurer). Mr. Samuel Suffern, senior Vice-President, was unanimously elected *President*, and the name of Mr. Hardy, the outgoing President, was added to the roll of honorary Vice-Presidents, which now consists of Messrs. J. Tate, S. Gibson, J.P., R. W. M'Knight, W. C. Dobbin, J. A. Woodside (Ballymera), J. Montgomery, J. Guiler, F. T. Smith, J.P. (Antrin), and H. G. Pring. Mr. Huston Lancashire, J.P. (Ballymena), was appointed Senior Vice-Junior Vice-President. Mr. W. J. Rankin was re-elected Treasurer, and the Committee was chosen as follows: Messrs. H. Crail, J. Dundee, S. Fleming, J. A. Bingham, W. Macartney (Grattan & Co., Ltd.), A. Wilson, J. Hewton, W. Martin, C. B. Abernethy, S. Nevin, J. Moffatt, John Montgomery, H. Marshall, T. N. Moffitt, M. McDonald, D. Henderson, E. J. Roberts, and R. Kells; wholesale section, Messrs, Fred Moore (Thomas McMullan & Co.), T. J. May (T. May & Co.), and J. Haydock (J. & J. Haslett, Ltd.). Owing to the great increase in the work it was decided to appoint a paid secretary in addition to the honorary secretaries, and his selection was left to the committee. Mr. J. C. Culbert, Connswater, Belfast, was unanimously reappointed hon, secretary, and a second hon, secretary was appointed in the person of Mr. J. Shillington (Harmurs, Ltd., Ann Street, Belfast). A discussion took place on the resolutions submitted in the autumn to the Proprietary Articles Trade Association, and disappointment was expressed at the treatment which they had received from that body. Mr. Hardy reported on the reorganisation of the Belfast Chamber of Trade. The following were provisionally elected to represent the association at the chamber: Messrs. W. J. Hardy, S. Suffern, J. C. Culbert, W. E. Wilson, and A. Wilson. The follow-J. C. Culbert, W. E. Wilson, and A. Wilson. The following were appointed on the committee of the employers' section: Messis. W. Macartney, Ph.C. (Grattan & Co., Ltd.), James Tate, Ph.C., J. A. Bingham, Ph.C., Wm. C. Dobbin, Ph.C. (Dobbin & Co., Ltd.), J. Dundee, Ph.C., J. Hewton, Ph.C., W. Martin, R.D. (Martin's Drug Store), A. Wilson, Ph.C., J. A. Woodside, Ph.C., R. W. McKnight, Ph.C., A. W. Mann, Ph.C., J. E. Connor, Ph.C., H. G. Pring (Grattan & Co., Ltd.), with the officers of the association if otherwise eligible. The delegates to the central body were reappointed.

Scottish News.

Brevities.

Thanks to the resistance of a number of chemists, the $1\frac{1}{2}$ per cent, surcharge on patent-medicine invoices for February has been deducted.

Among the chemical students at Scottish universities are to be found Norwegians, Danes, Roumanians, Chilians, Egyptians, Indians, Serbs, and Jugo-Slavs. These entrants would, in pre-war days, have gone to Germany. Some of them frankly say, "It is no good now studying

in Germany.'

A woman named Rosendale was recently charged at Aberdeen Police Court with stealing a 5t. note on one occasion, and twenty-four halfpennies on another, from a till in the shop of Mr. Frank Crossling, chemist and druggist, Justice Street. Giving evidence, Mr. Crossling stated that accused had asked for a chest protector, which he had to go downstairs for. The till was unlocked, and inside was a good sum of money and a 5t. note. During the afternoon the note was missed, and subsequently a trap was laid. Several coins were marked, rolled in paper, and put in the till, which was unlocked. A few days later, accused entered the shop, and was seen to take one of the packages from the till by an assistant on watch. When challenged the woman denied the theft, but subsequently confessed. The magistrate ordered a fine of 21s. in respect of the coppers, and gave her the benefit of the doubt as to the note.

In the course of a reply to a correspondent who asked for information concerning the "Pharmaceutical Society's diploma for women," the "Weekly Scotsman" of March 27 remarks: "The Pharmaceutical Society of Great Britain has—or had a few years ago—its offices at 17 Bloomsbury Square, London. W.C. An inquiry addressed to the secretary, Mr. Richard Bremridge (or his successor) at the above address, would probably obtain the information required. Nearer home, it may be mentioned that there is a North British Branch of the Pharmaceutical Society, at 36 York Flace, Edinburgh. The secretary, Mr. J. Rutherford Hill, would probably be willing to answer all reasonable inquiries with respect to diplomas and those cligible to receive them." The touch of Scottish caution in "probably" and "all reasonable inquiries" is, no doubt, natural; but "or had a few years ago" seems, on the face of it, an unusually "pawky" jest.

Glasgow.

About forty Glasgow chemists visited the Pumpherston oil-works on March 27. They were shown over the various departments, and before leaving were entertained to luncheon. They suitably expressed their appreciation of the welcome extended to them.

Sir Donald MacAlister has brought from London, for exhibition in the university museum, a case of instruments which belonged to the late Dr. David Livingstone. The famous missionary graduated at the university, and sailed for Africa from Broomielaw Wharf.

French News.

(From the "C. & D." Paris Correspondent.)

Wholesale Druggists' Association.—The possibility of doing without Bulgarian otto of roses in the near future was hinted at by the President at a recent meeting.

LANGUAGE QUESTION IN ALSACE LOBRAINE.—The following advertisement appears in a Parisian daily paper: "Pharmacist's assistant, aged nineteen, having served a year in a large Strasbourg pharmacy, seeks situation at Paris or large French town to perfect his knowledge of the language."

"Manna."—About the year 1899 M. Chastrey published an article in "La Nature" identifying the food of the Israelites in the wilderness with the cryptogamous plant known as Canona esculenta, or Lichen esculentus.—He said that the Arabs boiled it into a paste or ground it

into a sort of powder, also that camels and other animals ate it readily (C. d: D., January 3, p. 81).

Society of Pharmacy.—The President of the Society of Pharmacy at a recent meeting informed his colleagues that the French Mint could not at present strike gold medals. The gold medallists of the Society since 1914 would therefore receive a silver-gilt medal and 200 fr. in cash, representing the balance of the value of the award. M. François (President of the Paris Society of Pharmacy in 1919) reminded his colleagues that the Codex is practically the outcome of the propositions made by the special sub-committees nominated by the Society for the study and revision of the various classes of medicaments. The Codex Committee has, of course, full powers, but only makes insignificant changes in the text thus proposed. He asked his colleagues in consequence to work steadily and conscientiously and produce an "irreproachable" volume. M. Patrovillard (1920 President) agreed that this was the most important work before the Society this year. The secretary of the Society (M. Bourquelot) said the supplement to the 1908 Codex would soon be published.

The "Victor Hugo" Pharmacy.—According to some

The "Victor Hugo" Pharmacy.—According to some notes recently published by M. Adrien Nicklès, relating to the "Victor Hugo" Pharmacy at Besançon, it appears that the laboratory was originally opened in 1730 by a pharmacist named Baratte. It contained a carved wood counter, surmounted by two luge, handsome specimens of Rouen ware; a large number of smaller electuary and ointment jars, syrup pitchers, etc., stood on the shelves, intermingled with cut-glass bottles for tinctures and extracts; the drawers were ornamented with polychrome designs of flowers and fruit, and the whole place was a characteristic specimen of a Louis-XV. pharmacy. Baratte kept open shop (so M. Nicklès affirms) till 1800. When Victor Hugo was born (1802) the pharmacy had been taken over by a M. Maire, who owned the place till 1859. At his death the old front and fittings, too dilapidated to last much longer, were removed by M. Jacques, who conducted the business until 1909, when

the pharmacy definitely disappeared.

SOCIETY OF THE HISTORY OF PHARMACY.—At a meeting, held on March 6, in the Salle des Actes of the Paris School of Pharmacy, M. Charles Buchet, of the Pharmacie Centrale, presided, and welcomed a Professor of the University of Dorpat, whom the Esthonian Govern-ment has sent to Paris to study chemical and pharma-ceutical questions and French methods of instruction. Dr. Dorveaux, librarian of the School of Pharmacy, gave some chatty notes on Pilatre du Rozier, who flourished just before the French Revolution. He was already known as an aeronautical pioneer, but it was new to learn that he belonged to the pharmaceutical profession. The secretary produced a Toulouse newspaper containing a notice of the Society, and some amusing verses on oldworld pharmacy, in a Rabelaisian vein which was duly appreciated. (Who said that the meetings of historical societies were necessarily dry as dust?) The President was gratified to see the Society had begun to be better known, and 'a Propaganda Committee was nominated. with Dr. Dorveaux as chairman. With regard to the museum, M. Fialon has given a very large and handsome collection of drug-pots and other relics of bygone pharmacy, and room has been found for this unique donation. But it is crowded, and still more or less mixed with the materia medica collections. M. Fialon suggested that it be better housed, and all agreed. where can one find empty rooms nowadays? However, a Committee of Inquiry was nominated to study, the housing of the museum. The question was raised whether many documents relating to ancient pharmacy are hidden among the archives of the various Ministries of State. and some are occasionally destroyed. M. Leclerc stated such was the case, and cited various papers relating to the pharmacy at the Invalides, among others a document referring to the great Parmentier. M. Balland, the veteran historian of military pharmacy, asked if M. Leclerc could bring actual proof of what he stated. Efforts to approach the Ministries of Public Instruction, War, etc., to obtain copies of old documents interesting

Colonial and Foreign News.

HUNGARIAN SUBSTITUTE FOR ERGOT .- The amount of ergot collected in Hungary during the past year has been so very small that an extract of Capsella Bursac pastoris is now being used as a substitute for ergot and hydrastis.

ACETYLSALICYLIC ACID IN AUSTRIA.—The Austrian Ministry of Health has issued a regulation forbidding the safe of acctylsalicylic acid (including aspirin). except on the prescription of a duly qualified medical practitioner or veterinary surgeon.

PHARMACIES IN HOLLAND.—There are 614 pharmacies in Holland, in addition to 1,028 medical practitioners privileged to dispense medicine. The pharmacies employ altogether 267 male and 1.180 female assistants, while doctors are assisted by eight male and 140 female dis-

AUSTRIAN DRUG TARIFF INCREASED .- To indemnify pharmacists for the increased salaries paid to assistants, the Government has permitted an increase of 50 per cent. on the compounding charges in the official drug tariff, and a fixed charge of 1 kr. (nominally 10d.) on all private prescriptions.

A PHARMACEUTICAL PHILANTHROPIST.—The manufacturer of the well-known Purgen tablets, who introduced the use of plienolphthalein as a laxative, Dr. Desiderius Kruscay Bayer, a pharmacist and Swedish Vice-Consul in Budapest, has presented the sum of 100,000 crowns to the fund for the assistance of children in Budapest.

GERMAN CHEMICAL COMPANIES' DIVIDENDS.—The following figures give the dividends of the German chemical factories so far published: Chemische Fabrik Helfenberg, Works, formerly H. Scheidemandel, 15 per cent.; Chemical Works, formerly H. Scheidemandel, 15 per cent., and a bonus of 15 per cent. The firm of P. Beiersdorf & Co., in Hamburg, has been transformed into a limited liability company, with a capital of 2,410,000 mks.

AN ALL INDIAN CHEMICAL SERVICE.—The appointment by the Government of India of a Committee to consider an all-Indian chemical service ought to lead to good results. The organisation of scientific workers is indeed a matter of supreme importance to the future prosperity of the country. In the notable speech which he delivered at the Conference of Chemists at Lahore, Sir Thomas Holland made a forcible plea for the organisation of chemical research, especially in its bearing on the proper utilisation of the natural resources with which India is so richly endowed. The work accomplished by the Indian Munitions Board in helping to marshal the scientific forces of the country during the war indicates the enormous possibilities of developing valuable economic assets in the time of peace.

OPIUM SMUGGLING .- Judging by an article in "Lloyd's Weekly." of Shanghai, opium smuggling is very rife in that port, some 7,000 lb. of the drug changing hands daily, most of it going to the interior. It may be recalled that a large quantity of opium, said to be 2,000 cases, was publicly burned at Shanghai by the Chinese Government; but the writer of the articles asserts that the contents of over 400 cases were changed, the opium being replaced by balls mostly made of sesamum paste. The outside of these balls were covered with tobacco-leaf, from which every trace of fibre had been carefully removed; they were afterwards rolled while in a wet state in opium dust, and in three days they were as hard as wood, and could be split with difficulty. Many witnesses went to see the public burning of the opium at Pootung by the Customs, and it was remarked that "no opium fumes" could be traced.

NARCOTIC-DRUG RESTRICTIONS.—Memorandum 2365 B, dated January 3, 1920, which has been issued by the Department of Customs, Canada, contains the copy of an Act (Chap. 25 of 1919) amending the Opium and Drug Act. 1911. The Act is in force from December 31, 1919, by Proclamation of the Governor-in-Council. Sec. 1 of the Amending Act provides that every person who imports into, or exports from, Canada any coca-leaves,

cocaine, or any of their salts or preparations, or any opium or its preparations, or any opium alkaloids or their salts or preparations, without first obtaining a licence therefor from the Minister who is presiding over the Department of Health, shall be guilty of an offence, and shall be liable upon summary conviction to a fine not exceeding one thousand dollars, and costs, or to imprisonment for a term not exceeding one year, or to both fine and imprisonment.

IMITATION OF POND'S EXTRACT.—In the International Mixed Court of Shanghai, recently, Pond's Extract Co were the plaintiffs in an interesting case. The agents of the company were informed by the Chinese authorities that there was an imitation of their vanishing cream on the market. Some of the imitation cream proved to be not only an infringement but an absolute fraud. The imitation was called "Rond's Extract Company's Vanishing Cream," but the "R" was printed so as to look like "P." The only other difference was that the imitation was said to be made in Clinton, Conn., "S.M.C.," instead of Clinton, Conn., U.S.A. The Pond's Extract Company applied for temporary injunctions against various firms. At the trial it was ascertained that the imitation had originally been bought from a Japanese concern, and the defendants had only bought small quantities. The Court granted a permanent injunction against all the defendants, ordered the destruction of all the imitation cream, and reserved its decision on the question of damages, which were eventually. settled out of court.

MILAN PHARMACISTS' AGREEMENT.—An agreement has been made between the associations of owners of pharmacies and of non-owning pharmacists in the province of Milan, whereby terms regulating the salaries, hours of work, etc., of pharmaceutical assistants have been established. A forty-eight hours' week has been agreed upon, and May 1 is recognised as an official holiday. The monthly salaries to be paid have been fixed as follows: Managers of pharmacies, 700 lire (nominally 28*l*.); assistants qualified over two years, 500 lire (nominally 201.); assistants qualified less than two years, 450 lire (nominally 181.); certified assistants, 375 lire (nominally 151.). Every two years an increase of 5 per cent. will be granted for a period not exceeding six years' continuous service in the same pharmacy. Managers will be entitled to twenty days' holiday, and assistants fifteen days annually. If absent over four days, the assistant must provide a locum tenens at his own expense, illness up to a period of fifteen days not being counted as absence. Notice on either side ranges from forty-five days to nine months, according to the position and length of service of the employé.

PRICES OF SWISS SPECIALITIES .- The chairman of the Swiss Commission for specialities of the Swiss Pharmacentical Society has issued a request to the manufacturers of packed goods to submit to him (Apotheker Maeder, St. Gallen) the sale prices for their goods before publishing them. The price at which the preparation is to be sold to the pharmacist is based on the sale price to the public, less discount. Specialities have been classed into the following categories:

- (1) Specialities only sold on a doctor's prescription:—
 Sale price to public up to fr. 2.50=50% discount

 """, fr. 2.75 to 4 50=40%
 """, over fr. 4.75=373%
 """, over fr. 4.75=373%
 """, specialities only sold in pharmacies
 """, specialities only sold in pharmacies "", specialities "", specialities "", specialities "", speci
- Sale price to public up to fr. 6.0 = 37\frac{1}{2}\times discount over fr. 10.25 = 35\frac{1}{2}\times discount ov
- (4) Dietetic ,, =30% (5) Infants foods=25% discount

Single packages must be supplied by wholesalers on the above conditions. Manufacturers are to grant to pharmacists the above rates of discount on the established sale price of the products issued, for a period of two If this contract is not terminated six months prior to its expiration, it will continue for another year. A number of the most important Swiss manufacturers of specialities has already accepted this arrangement.

Legal Report.

In the Irish Courts.—Mr. Cusack, K.C., applied to the Lord Chancellor at the Four Courts, Dublin, on March 24, on behalf of Mr. Michael J. McConville, registered druggist, Crossmaglen, co. Armagh, that his client be appointed a Commissioner for Oaths for the Petty Sessions districts of Crossmaglen and Forkhill, co. Armagh, in the place of Mr. Hugh Morris, a Commissioner, who was resigning his office as he was emigrating to America. The Lord Chancellor appointed Mr. McConville a Commissioner for the Crossmaglen district, and said he would only appoint him for the Forkhill district aff the Petty Sessions Clerk at Forkhill, who is a Commissioner, consented.—In the King's Bench Division, Dublin, on March 24, in the action of Francis P. McGinity, of Brunswick Buildings, Liverpool, general broker, v. E. Ryan & Co., Ltd., Cork, Mr. Wilson applied on behalf of the defendants for an order for discovery of documents. The action was brought to recover 433l. 15s. 2d., of which 426l. 13s. 10d. was the price of caustic soda sold and delivered by the plaintiff to the defendants, the balance being for the carriage to Cork. The defendants alleged that the caustic soda was not according to contract. Mr. Justice Dodd made an order for discovery.

Bankruptcy Reports.

Re Arthur Edwin Ogden, 58 Dalton Road, Barrow-in-Furness, Lancashire, drug store proprietor. The first meeting of creditors herein was called on March 26 at the Official Receiver's Office, 16 Cornwallis Street, Barrow-in-Furness, but no creditors attended, the debtor alone being present. The estate will be wound up in bankruptcy. The debtor attributes his failure to illness of his wife, bad trade, and high rate of interest on borrowed money. He was trained as a chemist, but never practised as such. He has carried on business in Barrow as an optician and medical herbalist. The Official Receiver stated that the business was formed into a private limited company in 1918. The capital was 500%. Since the formation of the company the debtor has continued borrowing money from moneylenders, and states that he never got clear, but has renewed bills from time to time. The whole of the debts are owing to moneylenders.

Re G. E. Newton & Co. (George Edward Newton, trading as, 74 Great Tower Street, London, E.C., chemical merchant and exporter. This debtor attended, on March 26, before Mr. Registrar Francke, at the London Bankruptcy Court, in relation to his public examination. The receiving order was made on October 29 last upon the petition of moneylenders. A statement of affairs has been lodged, showing total liabilities of 6,795l., of which 2,030l. is expected to rank for dividend, against assets of 17l. 17s. 9d. The debtor asserts that he carried on a successful business until the middle of 1918, when, on account of the increasing restrictions on exports and Government control over chemicals, it fell away considerably, and on the signing of the Armistice practically ceased. Mr. D. Williams, official receiver, reported that the debtor had failed on several occasions to keep an appointment with the examiner, and generally he had caused trouble regarding his accounts. In those circumstances it had been proposed to ask for the examination to be adjourned sine die, but the debtor now said he was quite prepared to attend and give every information upon his affairs and accounts. The sitting was adjourned till April 23.

Gazette.

Bankruptcy Acts.

RECEIVING ORDER.
TEAGUE, A. II., 42 Albany Road, Cardiff, herbalist.

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

REGAL PERFUMERY Co., LTD. (P.C.).—Capital, 1007. Objects: To carry on the business of manufacturers of perfumes, chemists, druggists, dealers in toilet requisites, etc. The first directors are: W. A. Travell and T. F. Travell, both of 9 Goldswong Terrace, Nottingham. R.O.: 2 Trent Street, Nottingham.

SAPODA, LTD. (P.C.).—Capital, 4,0007. Objects: To

SAPODA, LTD. (P.C.)—Capital, 4,000%. Objects: To carry on the business of manufacturers of chemicals, disinfectants, toilet-products, etc., and to acquire from F. W. Pitt a secret process. The first directors are: F. W. Pitt, 147 Elgin Crescent, W. 11, and C. S. Hawkins, Penshurst, Dale Grove, Finchley, N. R.O.: 5 New Court, Lincoln's Inn, London, W.C.

Hicks, Miles, Elsworthy & Co. Ltd. (P.C.).—Capital, 3,000%. Objects: To carry on the business of manufacturers of and dealers in drugs, chemicals, oils, perfumery, toilet articles, glassware, chemical apparatus, etc. The first directors are: A. F. M. Hicks and Gertrude Hicks, both of 235 Queens Road, Wimbledon; A. Mills, 44 Hollydale Road, Peckham; and Ada Elsworthy, 115 Haydon's Road, Wimbledon, R.O.: 297 Haydon's Road, Wimbledon, London, S.W.

Lincoln and Midland Counties Drug Co., Ltd. (P.C.).—Capital, 150,000l. Objects: To carry on the business of manufacturers and vendors of patent medicines, drugs, surgical instruments, and appliances, and to acquire the business carried on by the Lincoln and Midland Counties Drug Co., Ltd. The first directors are: F. Brown, Sandfield House, Cross o' Cliff Hill, Lincoln; F. A. Clarke, 49 Nilbury Road, Hove, Sussex; and P. C. Clarke, Longthorpe, near Peterborough. R.O.: Tanner's Lane, High Street, Lincoln.

Lane, High Street, Lincoln.

Associated Surgical Appliance Makers, Ltd. (P.C.).

— Capital, 80,000l. Objects: To take over and amalgamate the undertakings (1) of E. Ernst, trading as F. G. Ernst, 78-82 Charlotte Street, Fitzroy Square, W.;

(2) of G. A. Ernst and S. Piercy, trading as Ernst & Piercy at Tottenham Mews, W.C.; (3) of Anderson & Whitelaw, Ltd., Broad Street Corner, Birmingham, carrying on business at 37 Manchester Street, W., and elsewhere; (4) of N. C. Clarke, Ltd., carrying on business at 166 Balsall Heath Road, Birmingham, and elsewhere; (5) of W. H. Fresidder, carrying on business as W. R. Grossmith at Burleigh Street, Strand, W.C., and 54 Dyke Road, Brighton; and (6) J. Masters, H. E. Masters, and E. F. Masters, trading as M. Masters & Sons, at 240 New Kent Road, S.E., to carry on the business of manufacturers of and dealers in artificial limbs, eyes, noses, and ears of all kinds, and anatomical, orthopædic, surgical, dental, optical, electrical, chemical, and other instruments and fittings, etc. The permanent directors are: E. Ernst, G. A. Ernst, W. P. Anderson, J. F. Whitelaw, J. Masters, H. E. Masters, E. F. Masters, W. H. Fresidder, and N. Clarke, R.O.: 37 Manchester Street, Manchester Square, London, W.

EVANS SONS LESCHER & WEBB LTD.—The warrants for dividends on the ordinary and preference shares of the Company due April 1, 1920, were posted to the registered shareholders on March 31.

TAYLORS' DRUG COMPANY, LTD.—The preference dividend at the rate of 6 per cent. per annum for the past half-year, together with a bonus of 1 per cent. for the last financial year, was paid on March 31.

ESSONA PERFUMERY Co., LTD.—C. F. M. Hicks, of "Helindene," Mayfield Road, London, S.W., was appointed receiver or manager on March 5, under powers contained in dehentures dated May 30, 1919

contained in debentures dated May 30, 1919.

MEDICAL HALL, LITD., SINGAPORE.—The business hitherto known as "Medical Hall, Singapore," has been converted into a private limited liability company with a nominal capital of \$200,000, of which \$150,000 has been issued. The registered office is 23 Battery Road, Singapore, and Mr. Geo. W. Crawford, chemist and druggist, is managing director.

The Profiteering Act.

Appeal.

Ar a recent sitting of the Lancashire Profiteering Appeal Committee, the appeal of Bloom, Ltd., opticians, against the decision of the Manchester Profiteering Committee, ordering a refund of 2l. 6s. on a charge of 6l. 6s. for a pair of spectacles and directing a prosecution (l. & D., January 51, p. 70), was dismissed.

Complaints.

Kensington.-At the sitting of the Profiteering Committee on March 29, the hearing of a complaint against Mr. E. W. Hill, Ph.C., trading as W. W. Brunton & Co., Earl's Court Road, S.W. 5, concerning the sale of Turkey rhubarb (C. & D., March 27, p. 71), was concluded. The respondent's solicitor, addressing the Committee, said that since the case was previously before the Committee a new position had arisen. Mr. Hill had told the Committee that the rhubarb in question was the best quality that could be obtained. He had now discovered, from a communication from a wholesale house, that it was not. Mr. Hill being under the impression that the rhubarb was the best quality when he sold it, he (the solicitor) submitted that the charge was fair. The respondent, whose rent was high—300/. per annum—was entitled to charge a little more than in cases in which rents were low. He had also a list of names of chemists in the neighbourhood, who stated that their price for the best quality of Turkey thubarb was 2s. 6d. per oz. The complainant objected to letters from other chemists in the neighbourhood being put in, as, he contended, they were not evidence. By the desire of various members of the Committee, the names of three local chemists were read, together with a portion of a letter, by the clerk. After asking several questions, the complainant commented adasking several questions, the complaint versely on the respondent's discovery of an error, and went on to admit that the complaint was made outside the statutory period. The Chairman remarked that the period had been extended at the previous hearing. The ('ommittee, after deliberating in private, ordered a refund

of 1s. and recomminended a prosecution.

Lewisham.—At the sitting of the Profiteering Committee on March 25, Mr. W. C. Sayers, Ph.C. was the respondent in a case of alleged profiteering in yellow exide of mercury continent, the price charged for 1½ oz. being 1s. Mr. C. H. Kirby (Neve, Beck & Kirby), instructed by the Chemists' Defence Association, Ltd., appeared for Mr. Sayers, and showed to the satisfaction of the Committee that the allegation of profiteering was unfounded. The complaint was dismissed.

At the Counter.

Permanganate of Potash was supplied when an elderly lady asked for "thrippence worth of amalgamated molasses."

SI PARLATE ITALIANO?—"Potal o Panerovan" runs a written order forwarded to us. It is not a new perfume, but merely a "bottle of pennyroyal."

GIVING HIMSELF AIRS.—Two small boys entered a chemist's shop at Ashton-under-Lyne recently, and the first one asked for "Three penn orth of all round." The chemist was mystified until the other, boy explained, "He's tryin' to talk weel off; he means 'ore ound!"

BACKACHE AND KIDNEY.—The following letter has been forwarded to us by a subscriber in Pietermaritzburg:

Dear Sir,—I beg your inform by Zulu native of yeoster-day I have Tailing to came there because I have pain in my right hand loin to much painings I cannot walking Fare way I think is Bruised I was Fall in house. . . I will try to see you to morrow if my pain will be remission.

Your Submission Servant,

perhaps Kidney in my Backache.

Institute of Ophthalmic Opticians.

A MEETING of the Council of the Institute of Ophthalmic Opticians was held on March 18, at the office, Staple Ing Buildings, London, W.C. Mr. W. T. Cromer (chairman) presided. The chairman proposed the election of Dr. H. G. Critchley, M.A., M.D., M.S., and Dr. J. P. Higham, M.B., B.S., as Vice-Presidents, which proposi-

tion was carried unanimously.

The fifteenth annual meeting of the members of the Institute took place in the hall of the Chartered Instituteof Patent Agents, Staple Inn Buildings, London, W.C., on the same date. The chair was occupied by Mr. W. T. Cromer, who, in moving the adoption of the annual and financial reports, referred to the prosperous condition of the Benevolent Fund, and spoke highly of the interest shown in it by Mr. Lionel Laurance. An interesting lecture had been given by Mr. L. Laurance, which was highly technical; another by Dr. Forrest, who gave them his idea of the optician of the future; and a third by Mr. Todd, showing the way in which the American optician is becoming State-qualified. Mr. E. K. Spiegelhalter seconded the resolution. Mr. E. Aves said that, as one of the younger opticians, he hoped that the idea of the lectures would not be lost sight of, as such a lecture as Dr. Forrest gave recently was very much appreciated. Mr. A. G. Serpell inquired if the Council had in view the arrangement of facilities for the study of diseased conditions of the eye. Mr. A. Upson, in his reply, stated that arrangements were being made, but the difficulty was to find suitable premises. A clinic must be situated in a part of London where other hospitals were not doing work. The Council was keen on starting the enterprise. and it was hoped to offer to members facilities for studying diseased conditions by next Scptember or October. Mr. Owen Avcs, speaking with regard to recognition, emphasised the fact that caution was necessary, as they must have absolutely full recognition to do the work to the utmost of their ability. Mr. A. W. Boatman referred to the pleasure of the older members at seeing the youngerto the pleasure of the older members at seeing the youngerones coming forward. The future of the optical profession and the fight for legal recognition were in the hands of the younger members. The chairman stated that the lecture in memory of Dr. Ettles was to be given every year by some highly placed man, and he had no doubt that the high level of Mr. Laurance's lecture would be sustained in others of the series. The adoption of the surveyl and financial reports was agreed to. A discussion annual and financial reports was agreed to. A discussion ensued on increasing the annual subscription to 1l. 1s. and that for life fellowship to 15l. 15s. and 7l. 17s. 6d. The proposal was carried unanimously. A further discussion on the minimum price list took place, but, beyond condemning the idea of "sight-testing free" and "glasses to suit all eyes," nothing was done in the matter. A vote of thanks to the chairman concluded the proceedings.

Wills.

Mr. James Sprent Simcock, chemist. 29 Duncan Terrace. Islington, and 311 Goswell Road, London, E.C., who died on January 21, has left 1,530l. 19s. 7d. Probate is granted to his daughter.

MR. ERNEST WYNDHAM COTTLE, M.A., M.D., F.R.C.S., Ningwood Manor House, Yarmouth, Isle of Wight, who died on June 2, left estate of the gross value of 97,7097. 18, 10d., with net personality 92,1107. 128. 7d.

FRENCH CHEMICAL TARIFF.—A French Presidential Decree of February 26 modifies the "coefficients of increase" applicable to chemical products imported into France. A translation of the Decree, giving the classification and rates of import duty, appears in the British "Board of Trade Journal" for March 18.

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

THE BUDGET.

The Chancellor of the Exchequer stated, on March 30, that he hoped to introduce the Budget on April 19.

EXPORT LICENCES.

Captain W. Benn, on March 25, asked the President of the Board of Trade under what statutory authority

the Privy Council acts in granting licences for export.

Mr. Bridgeman replied: I am advised that there is no statutory authority, but that the power to grant licences for export has been exercised by the Privy Council in time of war at least as far back as the eighteenth century as one of the powers inherent in the Privy Council. I may add that the issue of licences for export is expressly recognised in Section 4 of the Customs (War Powers) Act, 1915.

VETERINARY SURGEONS ACT (1881) AMENDMENT BILL.

Standing Committee B, which should have considered this Bill on March 26, could not do so for lack of a On March 30 the Bill passed through Committee. Sir A. Griffith Boscawen, Parliamentary Secretary of the Ministry of Agriculture, said there was nothing whatever in the Bill which would prevent an unregistered man from continuing to practise; it merely provided that such a man should not claim to be a regular practitioner; in other words, that the public should know whom they were employing. The Bill did not give the college the right of passing a by-law preventing an unregistered man from practising, and if such a by-law were passed the college could not enforce it. Fear was expressed that the funds collected might be used to crush out the unregis-tered practitioners, but the backers of the Bill repudiated any such intention.

Excess Profits Duty.

Mr. Betterton, on March 29, asked the Chancellor of the Exchequer whether his attention has been called to the hardship inflicted ou the ex-Service man who has started in business since the war and who is compelled to pay excess profits duty on the whole of the profit earned, less 2007; and whether he will consider the initiation of such amendment in the existing law as will alleviate this hardship, either by allowing an assessment on a three years average or otherwise.

Mr. Chamberlain replied : At the present stage I cannot see my way to vary the provisions of the existing law. In the case of a new business started since the war, whether by an ex-Service man or by any other individual, the pre-war standard would, under the general provisions of the excess profits duty, normally be computed by reference to the pre-war earnings of the taxpayer, whether he was before the war in business on his own account or in employment, and where the profits and the pre-war standard are small the allowance of 200l. would be supplemented by the additional allowance under Section 26 (4) of the Finance Act, 1917.

No Decimal Coinage.

The report of the Commissioners appointed to consider whether it is advisable to make any changes in the denominations of the currency and money of account, with a view to placing them on a decimal basis, was issued on The majority report, signed by thirteen members (two with reservations) out of twenty-two, states that it is not advisable to make any change in the denomination of currency. The chief considerations are: (1) In any scheme for reducing the existing system to a decimal basis the pound should be retained; (2) the pound and mil scheme is the only strongly supported scheme which complies with this condition; (3) the advantage to be gained by a change to the pound and mil scheme as regards Reeping accounts is in no way commensurate with the loss of the convenience of the existing system for other purposes; (4) grave difficulties will be created by any alteration of the penny; (5) the scheme cannot be tried as an experiment or on a voluntary basis.

INCREASE OF COST OF LIVING.

The following statement was presented to the Honse of Commons on March 29, showing percentage rise in the cost of living in the United Kingdom and certain foreign countries, as measured by the most recent computations of the official statistician of each country. The date from which the rise is computed is pre-war, except in the case of "other towns" in France, the period in this case being the third quarter, 1914:

Country	Calcu- lated percent- age rise	Latest date (or period) to which figures are carried	Principal groups of articles taken as basis of computation
United Kingdom	% 150	March 1, 1920	Food, fuel, lighting, clothing, reut and sundries
France: Paris Other Towns Italy: Rome Milan	197 220 193 282	February 1920 Ist Quarter, 1920 February 1920 February 1920	Food, fuel & lighting Food, fuel, lighting, clothing, rent, and sundries
United States Belgium Denmark Norway Sweden Germany†	96* 296 142 201 159 356	February 1920 January 1920 January 1920 December 1919 January 1920 December 1919	Fo.d only Food, fuel, lighting, clothing, etc. Food only

*In October 1919 the rise in the cost of living in the U.S.A. (not food only) was officially ascertained to be 83 per cent, above the level of 1913. In the same period the rise in the level of food prices alone amounted to 88 per cent.

†The figure in this case is not official, but is computed by Herr Richard Calwer, editor of "Die Konjunktur," and a statistician of recognised competence in Germany.

The July Qualifying Examination.

A PETITION signed by 282 students in the following institutions: Victoria University, Manchester; School of Technology, Manchester; Manchester College of Pharmacy; Liverpool College of Pharmacy; Leeds College of Pharmacy; and the Blackburn Technical School, has been forwarded to the Pharmaceutical Society of Great Britain praying that an examination centre be established at Manchester for the July examination. The petition is

We, the undersigned, being students of pharmacy at the various colleges and institutions indicated, do hereby request that, in respect of the coming Qualifying examination in July 1920, arrangements be made that the examination be conducted at a Manchester or other North of England

Centre. Should statutory difficulties prevent the whole of the examination being held in Manchester, we do expect that the Society will at least make arrangements to hold Part I. at a suitable North of England Centre—an arrangement which, we are convinced, i: both feasible and practicable. The reasons for this Petition are:

1. Owing to the abnormally large number of students this year there is likelihood of intense congestion at the London and Edinburgh Centres, causing—

London and Edinburgh Centres, causing-

tion.

(a) Two journeys to and from the Centre, with no sure prospect of hotel accommodation;
(b) A protracted stay at the Centre;
(c) Or both.

2. Such a stay or duplication of journeys will cause con-2. Such a stay or duplication of jointleys will cause considerable expense to the students, railway fares and the cost of accommodation being very high. As the majority of students are dependent upon the slender Government allowance, which does not allow of such expenditure, the financial strain would be very severe. Also, the physical and mental strain which this would entail on the student would militate against his chances of doing himself justice in the examination.

3. There has been in times past a considerable difficulty in obtaining hotel accommodation in the London area—a condition which is now worre than ever (ride daily Press), and likely to be acute in July, with the influx of American

4. Adequate laboratory provision can be obtained in the Manchester area. C 2

German Stocks of Reparation Chemicals.

The following is the official list of the stocks of pharmaceutical chemicals available for the Reparation Commission under the Peace Treaty. It will be noted that the quantities are in kilograms and decimals to grams, and prices in marks to hundredths. The prices quoted are those of September 20, 1919.

Article	Quantity (Kilograms)	Price per Kg. (Mark)	Value (Mark)	Article	Quantity (Kilograms)	Price per Kg. (Mark)	Value (Mark)
Acetaldehyde, 95°,	40.000	9.00	360.00	CaffeineCalcium acetylsalicylate	157·000- 38·000	200·00 45·00	31,400·00 1,710·00
Acetaldehyde, 95% Acetaldehyde, 90% Acetaldehyde, 80%	26.000 17.000	8·50 8·00	221·00 136·00	ferrophospho-lactate	18.000	22.50	405-00
Acetaldehyde, 50°	28.000	6·00 45·00	168·00 9,990·00	guaiacolsulphonatesalicylate		65.00 15.00	3.640·00 435·00
Acetylchloride pro anal,	1.700	90.00	153.00	Calodal	10.000	120.70	1,207.00
phenylhydrazin Acid, acetylsalicylic	3.500	130·00 45·00	455·00 196,875·00	Cellocoll Chinaphenin	20.500	7·50 690·00	8,340.00 14,145.00
amidophylarsin	. 42.000	300.00	12,600.00	Chineonal Chloralamid.	107-000	200·00 25·00	21,400·00 7,975·00
anisicum benzoicum		60·00 25·00	3,720·00 2,825·00	Chloral hydrate	11.300	58.00	655.40
ciuamylic, puriss, anhydr,	8.000	95.00	760.00	Chloralose Chlorphenol para	20.000 150.000	350·00 27·20	7,000·00· 4,080·00·
diethylbarbiturie dipropylbarbiturie dipropylbarbit	1,510·000 16·000	180·00 360·00	271.800·00 5,760·00	Chlorsalol para	13.000	81.60	1,060.80
gallic, cryst	. 263.000	50.00	10,150.00	Choleval		235·00 -325·00	47,235·00 4.550·00
gallic. pulvguaiacol-carbonic	. 33.000	55·00 285·00	4,950·00 9,405·00		2.000	. 20 00	1.550 00
lactic, puriss, alb. 1.21	. 197.000	20·00 25·00	3,940.00 350.00	CINCHONA BARK: Pharmaceutical	26,371.000	27.50	725,202.50
lactic, puriss alb. 1.24		20.00	5,400.00	For manufacture	24,412.000	310.00	7,567.720.00
pyrogallic, bisubl	. 40.000	150.00	-3,200·00 16,050·00	Price per kilo of quinine sul- phate content Ph. G. I1	-		
pyrogallie, oxydat, salicylie, cryst, v. prac	11,808.000	18:40	217,267.20	Creosot, benzoate		50.00	1,600.00
salicylic, phys. pur,sulphosalicylic	. 19.000	18·40 20·00	349·60 138·00	phosphorate		150·00 130·00	11,100·00 4,810·00
valerianic, monohydr,	30.000	75.00	2,250.00	Cresumin. Creosotineresol		50·00 2·75	100·00 13,750·00
valerianic, normalvalerianic, trihydr	0.400	1,200·00 72·00	480·00 33,480·00	Creosotal	609.000	150.00	91,350.00
Acoin	6.000	535.00	3,213.00	Cresalol meta ortho	. 68.000 [127-50	8,670.00
Actol	2·500 3·000	1.215·50 300·00	3,038·75 900·00	hara	. 9.000	187.00	1,683.00
Adamon	5.000	108·00 400·00	540·00 31.600·00	Crurin pur. Cnsylol	. 3·000 43·000	200·00 100·00	600·00· 4,300·00·
Agurin	9.000	144.50	1,300.50	Cnsylol Cycloform	. 52.000	260.00	13,520.00
Alival Anisol II.	9.000	300·00 10·00	2,700·00 3,970·00	Diacethylmorphine	. 2·500 32·000	1,750·00 75·00	2,400.00
Allosan	30.000	150.00	4,500.00	Dianol I	. 2.000	30·00 32·00	60·00 32·00
Amidoazotoluol med	365.000 18.000	70·00 20·00	25,550·00 360·00	III.	1.000	34.00	34.00
Amphotropin	4.800	210.00	1.008.00	Diogenal Diplosal pulvis	. 31·000 61·925	200·00 45·00	6,200·00 2,786·62
Amylenhydrat, Amyl acetate pur,	2.000	150·00 27·00	300·00 783·00	Dithion	. 365.000	45.90	16,753.50
benzoate	120.000	50.00	6,000.00	Dermiol sol, 1:1		50·00 250·00	5,250.00
butyrate puriss! formate		220·00 32·00	352·00 640·00	Duotal	. 893-000	250.00	223,250.00
salicylate	170.000	34.00	5,780·00 174·00	Empyroform Epicarin pur	. 38·000 64·000	30·00 240·00	1.140.00
valerianate pur nitrite	210.000	60·00 22·00	4,620.00	vet	. 36.000	50.00	1,800·00 104·00
Anæsthesinhydrochloride	328.000	191·50 202·50	62,812·00 1,620·00	Estoral Etclen		80·00 55·00	7,370.00
Anisol puriss,	6.000	20.00	120.00	Ethyl benzoatebromide	. 65.000	32·00 16·00	2,080·00 592·00
Antifebriu Antipyrin		35·00 63·00	63,000·00 1,280.664·00	formate absolute	. 9.500	30.00	285.00
salicylate	2,137.000	36.00	76,932.00	formate concentrated		13·00 12·50	1,105·00 1,300·00
Aponal Argentamin		150·00 75·00	9,300·00 2,625·00	iodide	J.2·400	300.00	3,720.00
Aristochin	251.000	1,015.00	254,765·00 121,200·00	Salicylate		25·00 30·00	6,125·00 4,620·00
Aristol Arsacetiu	43.000	203-00	8,729.00	chloride	9.000	16·00 30·00	144·00 177·00
Aseptol		12·00 105·00	348·00 462,210·00	chloride puriss. Encaine	23.000	300.00	6,900.00
Atophan	493.000	175.00	86,275.00	Euquinire	31.500	690·00 345·00	21,735.00 2,898.00
Azodermin Azodolen	3.000	65·00 150·00	4,550·00 450·00	salicylate	0.050	690.00	34-50
Balsam, Peru artificial	42.000	60.00	2,520·00 130,725·00	Eucupin basic	6·100 2·800	1,015.00 965.00	6,191·50 2,702·0 0
Benzonaphthol Benzosalin puly.	15-500	\$0.00	1,240.00	bihydrochloride Euguform	37.000	55.00	2,035·00· 48,000·00·
Benzosol	150.000	91.50 261.80	17,385.(0 8,377.60	Euphorine	194.000	12,000.00	26,548.90
Blenal Borovertin	141.000	85.00	11,985.00	Euphyllin	2.000	700·00 115·00	1,400·00 690·00
Bromal anhydr Bromalin	1·100 63·000	50·00 42·00	55·00 2,646·00	Europhen	207.000	400.00	82,800.00
Bromipin 10%		10.00	1,800.00	Ferratin	353·200 40·000	100.00	35,320·00 4,400·00
Bromochinal	25·000 2·600	27·50 80·00	687·50 208·00	Formicin	8.000	90.00	720.00
Bromocoll	781.000	80.00	62,480·00 1,211·10	Fortoin Gastrosan		850·00 149·60	
Bromoform puriss, ph. G. V Bromural		250.00	423,750.00	Glutol		50.00	
Butyl iso-acetate		80.00	2,400.00	GLYCEROPHOSPHATES:			
CACODYLATES: Acid, eacodylic	161-500	200.00	32,300.00	Acid glycerophosphoric sol. ca	2.800	. 62-00	173-60
Calcium cacodylate	0.300	190-00 180-00	57·00 5,711·40			72.00	288-00
Guaiacol cacodylate	12.000	180-00	2,160.00	Ammon, glyceroph csphate	1·300 0·300	130·00 70·00	21.00
Mercury cacodylate		230·00 180·00	552·00 99·00	Calcium glycerophes., sol. & neut	1,521.000	70.00	106,470.00
Lithium cacodylate	2.520	270.00	680·40 300·00	glycerophes., granule effervese	. 5·600 24·000	70·00 20·00	480.00
Magnesinm cacodylate	0.775	300·00 200·00	155.00	giveerophos., granule 10%	25.000 16.000	25·00 10·60	
Sodium cacodylate	5.000	170.00 800.00	850·00 880·00	glycerophos., granulc 5% glycerophos., liquid 50%	105.000		5,250.00
Etty Chilla. Cacody fato	- 200	,,	,				

Article	Quantity (Kilegrams)	Price per Kg. (Mark)	Value (Mark)	Article 🔑	Quantity (Kilegrams)	Price per Kg. (Mark)	Valve (Mark)
GLYCEROPHOSPHATES (cont.)	1h. 1d.im						
Iron glycerophosphate, pulv	48.000	100-00	4,800.00	Optochin basic	11.000	1,015.00	11.165.00
glycerophos., reutral puly	19.000 48.000	100·00 25·00	1,900·00 1,200·00	hydrochloride	1 53.800	9€5.00	51,917.00
glycerophos., granulated 10% Potash glycerophos., 50%	129.800	40.00	5,192.00	Optochin-salicylic ester tannic ester	24.EC0 1.CC0	1.015 CO 507-50	24.867·50 507·50
glycerophosate, 75%	49·250 10·000	70.00 91.00	3.447·50 910·00	Orexin tannate	55-000	250.00	1,375.00
Lithium glycerophosphate	4-800	250.00	1,200.00	Orphol. Orthoform	325.000 1.000	225 25 163-50	73.206·25 163·50
Magnesinm glycerophos., cryst Manganese glycerophos., soluble	299.000	130-C0	38.870.00	hydrochloride	5-500	163.50	£9.25
elveeronhos, neutral	30.500 24.600	90·00 95·00	2,745·00 2,337·00	Paraform Paraldehyd, puriss.	650-ccn	20.00	13,000-00
sodium glycerophosphate, 56% glycerophosphate, 75% glycerophosphate, 100% glycerophosphate, dry, lumps	26JC00	35.00	9,135.00	Paramorfan	8.000	17.50 6.00.00	11,637-50 48,000-00
glycerophosphate, 15%	31·000 3·300	57.50 70.00	1.782·50 231·00	Pellidol	172-000	150-CO	25.800.00
glycerophosphate, dry, lumps	2.000	70.00	140.00	Perhydrit Peruscabin	22,500 1,570·CC0	. 32.00 60.00	720·00 94,200·00
glycerophosphate, cryst	97-750	115·co	11.011.25	Petol	1,800	55.00	99.00
glycerophosphate, pulv	5·000 30·400	25·00 95·00	125·00 2,888·00	Phenacetin Phenocoll		120·00 100 00	763,800.00
glycerophos., pulv. F. U. III Strontium glycerophosphate	3.000	120.00	360.00	Phenolphthalcin	1,300.000	66 CO'	85.800.00
Strychnin glycerophosphate	0·300 2·000	530-co	27·00 1,060·00	Phenyluretan Fiperazin	13 ((0	50 00	650.00
Zinc glycerophosphate	0.130	250.00	32.50	Potassium benzoate	2:3.000 8.000	40.00 , 20.00 i	93.200·00 160·00
Glycosal	8·000 513·000	53·C0 70·00	424.00 35,910.00	salicylate Pracedin	110.000	27.00	2.970-10
camphorate	4.000	250 CO	1.000.00	Proponal	7-500 19-000	£00.00	45,000-00 9,800-00
cinnamate	10.000	142.00	1,420·00 15·480·00	Pyramidon	6,469.000	165 00	1,067,385.00
nhosphorate	129.000 243.000	120·00 172·00	41.796-C0	camphorate Pyramidon camphorate neutral	5.000 10.000	225·C0 250·C0	1,125·00 2.500·00
salol Gujasanol	69.000	119.00	8,211.00	salicylate	51.000	162-50	8,287.50
Hediosit	5·000 250·000	300·00 40·00	1,500·00 10,000·00	Pyrazolon pheuyldimethylic salicylate	125.000 10.000	90·00 95·00	11,250:00 950:00
Hedonal Helmitol	216.000	300.00	• 64-800-00	caffein-citr	1.500	85.000	127-50
Hemicramin	164.000 12.000	150.00 100.00	24,600·00 1,200·00	Quininé acetate	9-590	470-00	4,507.30
Heyachloraethan	7.700	35.00	269-50	acetylocarbonateacetylsalicylic	1,500	700.00	1.050-00
Heroin hydr. Heroin par.	21.600 6.300	2,800.00	60,480.00 17,640.00	ethylsulphate	1.595 1.270	470·C0 470·C0	749 65 596-90
Heeperonal-calcinm	5.700	60.00	342.00	anisatum	1.755	470.00	824-85
sodium	2.500	65.00	162.50	arsenicos	38·152 9·623	470-00 470-00	17,931·44 4,522·81
Hotol '	28.000 12.000	140·00 70·00	3,920·00 840·00	Ph. Ross, IV	0.530	480-00	254.40
Hetralin	11.000	75.00	825 (0	henzoate	46·480 0·240	470-C0 47C-C0	21,845.60 112.80
Hexal	2.722·000 6·000	35-00 106-00	95,270·00 636·00	biethylsulphatebiborate	0.020	470-C0	9.40
Heronhan	180.000	262-50	47.250.00	bibromatebicamphorate	18-300	470.00	8,601-00 4-70
sodium Hippol	1.800 13.000	262-50 125-00	472·50 1.625·00	highwata	0.010 0.035	470·00 470·00	16.45
Holocain	5.000	350.00	1.750.00	bihydrobromide	10.560	470 CO	4,503-20
Hydrastinin hydr	6.500	8,500-00	55,250·00 7,140·00	bihydrobromide bihydrochloride puriss.	58·390/ 169·775	477-C0 487-C0	27,852·03 82,680·42
sulphate	34·000 1·800	210.00 210.00	378·C0	carbamate	43,360	485-00	21,029.€0
Hypnal	20.000	83-50	1.670·C0	biliydroiodatebiiodide	1.496 0.027	470-00 530-00	703·12 14,310·00
Iodival .:	4·000 45·000	235·00 250·00	940-co 11.250-co	l isulphatebitartarate	395-675	350·C0	138,486.25
IodofauIodol	120-000	165.00	19,800 00	bitartaratebcrate	1.875 0.800	470·00 470·00	881·25 376·00
Iron salicylate	102.000 10.000	650·C0 30·C0	66,300·00 300·00	ly regalicylate	0.055	530-00	29.15
Istizin vet:	68-000	40.00	2.720 (0	bromate	304·500 27·425	467-00 503-00	142,201.50 13,794.77
Lactopheuin	6·000 51·200	1.258-00	7,548·00 3,875·30	bromide	2.036	500-00	1,(18-00
Laneps	3,000.000	12.00	36,000-00	bromomuriatecamphcrate	0.035	470-00	16:45 277:30
Lenigallol	60·000 11·000	200-00 130-00	12.000·00 1,430 00	· errholate	0.590 2.162	470 CO 470 CO	1.016.14
Lithium salicylate	3.000	44.00	132.00	carbonate	2.850	530 00	1,510·50 593·14
Luminal and luminal sodium	425 000	575.00	244,375.00	minovate	1·262 0·190	470-00 470-00	89.30
Lygosin quinine	73·000 9·400	125.00	29,200·c0 1,175 00	chlorate	0.825	470-C0	387.75
sodium Lysidin	. 21.700	55 00	1,193.50	cinnamate :	2·235 37·665	500·00 470 00	1,117-50 17,702-55
bitartrate	30·000 18·000	205·50 182·50	6.165·00 3,285 00	engenolate	0.045	470.00	21.15
Magnesium salicylate	226.000	25.00	5,650 00	eosolate	0·565 1·020	800·00 460·00	4 52-00 4 69-20
Medinal	60.000 127.000	111.00 300.00	6,660 00 38.100 00	ferro-arsenate	0.535	470.00	251.45
Melubrin	400-000	103-00	41·200·00	arsenite	2·240 1·887	470·C0 240·C0	1,052-80 1,172-88
Menthol valerianate	2.4·000 169·000	430·00 60·00	10,320-00 10,140-00	citrate fusc. 20% citrate fusc. 20% citrate fusc. 25%	6.100	206.00	1,622.60
Methyldisodium arsenate	8.000	40.00	320.00	citrate fusc. 25%	7.980	278.00	2,218.44
Methylenditannia Methyl acetate	115.000 25.000	60·00 30·00	6,900-00 750-00	Rese VI.	1.470	244·C0	358 68
benzoate	3-000	30.00	50-C0	ferro-citrate fusc. peniss, Ph. Dan. 1907	57.000	244.00	18,809.56
butyratesalicylate	1.000 $1.161.000$	35 00 20-50	35 00 23,800·50	ferro-citrate Ph. C. V.	77-050	244.00	1,717.76
yalerianate	2.500	100.00	250.00	Ph. Sacc.	7,040 29.500	244.00	7,198.00
Migranin Monochlorphenol ortho	1,114.000	100 00	111,400.00	Ph. Suec. 1X	10.500	244·C0	2,562.00
para	5 000 4·000	25 00 32·00	125.00 128.00	viride 16%	125·845 25·280	205·00 240·00	25,798·22 6,067·20
Monomethyl para-amidophenolsulph. Nahrstoff Heyden	430.000	82.00	35.260.00	viride 20%	16.160	266 00	4,298.56
Naphthol med	405-000 448-000	204-00 10-00	82.620·00 4,480·00	viride 25%	127-000 4-217	278·00 278·00	35,306·00 1,172·32
Neguvon	2,650.000	6.70	17,755.00	elycerophosphate	0.235	464-C0	169.04
Neurofebrin	55.000 2.000	85·00 125·00	4,675 00 250 00	hydrobromidehydrochloide	0·150 1 028	470·C0 470·C0	70-50 483-16
Neuronal	23.000	225 00	5,175.00	hypophosphite	0.055	497-C0	27.33
Neu-Urotropiu Nirvanol	71.000 146.000	150·00 351·50	10,650·00 51,319·00	iodate	0.648 4.418	470·C0 ECO·CO	204-56 2,209-00
Novargan	21.000	293.25	6.158-25	lactatesulphate	1.220	470-C0	573-40
Novaspirin	412-000 169-000	150.00	61,800-00	tannate	0.530	350-0.0	185-50 320-16
Novocain	320.000	163·20 553·50	27·580·00 177.120 00	tartaratevalerianate	0.690 0.320	464·C0 470·C0	15C-40
base nitrate	5.000	625.50	3.127-50	fluorate	0.213	500-00	106.50
***************************************	10.000	675-50	6,755.00	formate	18.755	5(0-(0	9,377.50

Article	Quantity (Kilograms)	Price per Kg. (Mark)	Value (Mark)
CHINING (mark)			
QUININE (cont.) ferro-gallate	0.085	500.00	42.50
glycerinophosphate glycyrrhizinate	32-647	500.00	16,323.50
glycyrrhizinate	4.890	350.00	1.711.50
hydrobromide puriss.	53·585 97·325	467·00 503·00	25,024·19 48,954·47
puriss, Ph. Suec. Ph. U. St.	31.300	503.00	15,743.90
Ph. U. St	0.500	472.00	236.00
DHIVIS	4.430	467·00 477·00	2,668·81 157·41
hydrohromide-snlphate hydrochloride Ph. G. H. Ph. J. III.	4,508-608	467.00	2,105,519.93
Ph. J. III	1,660-221	485.00	805,207.18
Grece loi 1908 Pariss, Ph. G. V.	3·000 61·335	467·00 503·00	1,401·00 30·851·50
Ph. Granul.	54.070	509.00	27,521.63
phenyl	0.697	470.00	327.59
phospho,sulpho.	0·075 3·400	500·00 477·00	37·50 1,621·80
hydroferrocyanate	15.672	470.00	7,365-84
hydroffnorsilicate hydroiodide	0.045	470.00	21.15
hydroiedide	3·144 0·220	470·00 470·00	1.477·68 103·40
hydriod, ferrat hypophosphite hyposulphite iodate	205.142	500·C0	102,571.00
hyposulphite	0.850	500.00	425.00
iodateioda-hvdroiodide Ph. Grae	3·900 0·340	530·C0 500·00	2.067·00 170·00
carodylate	1.015	500.00	507.50
Lactate	14,909	470.00	7,007-23
'monomethylarsenate	0·005 2·990	470.00	2.35
nitrate nuelcinate:		470·00 470·00	1,405·30 9·40
Quinine oxalate		470-00	768-45
peptonate		470.00	117.50
phenylo-bihydrochloride	. 0.360	470.00	169-20
hydrochloride	. 0·540 . 21,580	470.00	253.80
pnospho-lactate	0.145	480.00	10,077·86 69·60
pnospho-lactate phosphomuriate	. 0.115	470-00	54.05
phosphate	. 128,257	470.00	60.280.79
phthalate pierate	. 0.433	470·00 470·00	502.90
picrate, puriss, precip. Ph. Succ. 9 cryst,	8.000	700.00	5,600.00
cryst,	1.230	725-00	891.75
auhydrie purum	. 8·400 . 239·550	840·00 584·00	7.056·00 139·897·20
practip.	. 55.895	584.00	32,642.68
practip. anhydric puriss. alleylate Ph. U. St.	. 0.022	840-00	18.48
phriss	. 1.075 . 59.298	700·C0 467·00	7 52·50 27,692·16
cryst.	. 245.089	467-00	114.456.56
<tearate< td=""><td>. 0.283</td><td>470·c0</td><td>133.01</td></tearate<>	. 0.283	470·c0	133.01
stibate, cryst	0.580	470·C0 470·C0	272·60 136·30
-ulpho-bromate	0.030	470·00	14.10
-ulpho-bromate -guaiacolale 1 xlide	0.240	470.00	112.80
nuriate	0.358	530·00 477·00	189·74 73,962·18
-bhenvlate	32.310	467.00	15,088.77
tartrate = ilbhate, Ph. G. H. Ph. Austr. 7	0.140	470.00	65.80
Ph. Austr. 7	3.291·694 3,892·113	350·00 369·00	1.152·092·90 1,436,189·69
and bisulphate parat, schw		00 9 00	2,100,1000
erysr.	39.500	407 00	16.076.50
puriss, Ph. G. V. Ph. Ned, 111. Ph. Succ. IX	224·450 3·400	407·00 407·00	91,351·15 1.383·{0
	03 020	407.00	16,125-34
parum Grece loi 1908	6.500	362.00	2,353.00
t quate basic, 50°,	0.040 9.240	470·00 458·00	18·80 4,231·92
Γ. Γ. 3	5.100	307-00	1,565.70
Codex Français	5-885	327-00	1,924.39
Ph. C. I pur, pnly, Ph. G. I. pur, i. sticks Ph. G. I	62.305	285·00 285·00	18.468.00 17,756.92
par. i. sticks Ph. G. I	27.750	285.00	7,908.75
nur. Cod. franc	2:380	327.00	7,908·75 778·25 20,074·73
pur, puly, Ph. G. IV, pur, Ph. Ned, 114.	65·390 23·350	307·00	20,074·73 7,137·75
pur, i. sticks Ned. i isip, pul, Ph, Ned, IV.	2.380	307-€0	730-66
i isip, pul. Ph. Ned. IV.	0.050	370.00	18.50
Ph. Austr. 8, Ph. G. 5, and Ph. Hg. 3	271.815	327-00	88,883-50
t t	34.975	268 00	9.373.30
venale puly,	94.770	268-C0	25,398-36
i, lumps		268 00 470·00	10,253·68 2,072·70
tetrasulphate thiosulphate	0.170	470:00	79.90
thiosulphate	0.105	470.00	49.35
valerianate, pulv. v. cryst.	0·920 248·965	500·00 492·00	460·00 122,490·78
i. lumps	5.650	. 492.€0	2,779.80
Resorcin med, cryst, puriss, resubl.	14.000	190.00	2,660:00
resubl.	850-C00 1-CC0	29·50 ,55·00	25,075·00 55·00
Rheumatin	13,600	690.00	9,384.00
Rheumatin Ristin	42.€00	75.€0	3,150.00
Saliformin Salitum pur.	16.000 162.000	40·00 42·50	640·00 6,885·00
Salochinin	66-800	690.00	46,092.00
Salocreol	86.000	62.05	5.336-30
Salophen	1,881.00.0	200.00	376-200-00

		Price				
Article	Quantity	rer Kg.	Value			
21111CTC	(Kilograms)	(Mark)	(Mark)			
		(Maik)				
Salvarsan	678-500	8,000.00	5,428,000.00			
or salvarsan sodium or neo-	0,000	0,000 00	0,120,000 00			
salvarsan	678-500	5,333.00	3,618,440.50			
Scarlet red, Agfa med.	35.000	60.00	2,100.00			
Biebriech	358-000	70.00	25,060.00			
Silver proteinate	397.000	225-00	89,325.00			
Sodium benzoate	23,569.000	20.00	471,380.00			
cinnamylate	5.000	65.00	325.00			
diethylbarbituric ditl:iosalicylate	500.000	180.00	90,000.00			
dithiosalicylate	1.000	65·C0	65.00			
phenylpropiolate salicylate	17.000	127.50	2.167-50			
salicylate	9,631.000	21.40	206,103.40			
salicylsulphonate	55.000 896.000	45.00	2.476.00			
sulphocarbolate	49.000	6·50 12·00	5,824·00 588·00			
sulphophenylate, white	26.000	1.90	49.40			
Solveol		3.00	4,392.00			
Spirosal		110.00	9,750.00			
Styracol	2.500	125.00	312.50			
Subcutin		125.00	1.375.00			
Sublamin /		50·C0	19,440.00			
Sulphdal	21.000	27.60	579-60			
Sulphonal	166-000	250.00	41,500.00			
Suprarenin synth. Tannin albuminat.	0.628	58,500.€0	36,738.00			
Tannin albuminat.	255·CCO	50·c0	12,750-00			
Tannismut		148.75	23,056.25			
Tannobromin	28·CC0 3C0·CC0	105·00 26·00	2,940·00 7,800·00			
Tannonin vet.	59-000	15.25	899.75			
pur	109.000	58-50	6.376.50			
Tannopin vet. pur. Tanocol	244·CCO	50.00	12,200.00			
Terpineol muguet	16.000	70.00	1,120·C0			
Theaxylon	5·C00	260-00	1,300.00			
Theobromine	100.000	500-00	50,000.00 2,380.00			
Theogin pur.	8·500 43·500	280·(0 450·(0	19,575.00			
Thiocoll puly.	950-CC0	150.00	142,500.00			
Thioform	2.((0	295.00	590.00			
Thymolearbonate	39.(00	200.00	7,800.00			
Tribromphenol		110.00	451.00			
Tribromsalol	55.000	65.45	3,599.75			
Trichlorphenol	7.900	50.00	395-€0			
Trigemin	. 120·CCO	178.00	21,360.00			
Trional	3,378-00	3CO-CO 5CO-CO	1,013,400·00 22,000·00			
Tropacocain Trypaflavin	44·CCO 20 CCO	5CO-CO	10,000.00			
Tussol	27.((0	121.50	3 307-50			
Frea nuriss cryst	379 ((0	39.00	3,307·50 14,781·00			
Urea puriss, cryst,	105 CCO	32.00	3,360-00			
acetate	2-4.00	35.00	84·C0			
citrate		120·C0	168.00			
oxalate		30.00	63.00			
nitrate		32 00	128.00			
Sulphate		40·C0 22·50	220·00 292·50			
ethyl		65 CO	4,615.00			
Urotropin		80 00	143,400.00			
Validol	82.300	250·C0	20,575.00			
Veronal	61.00	300.00	18,300·00			
sodium	621.00	400.00	248,400.00			
Vizin basic	0.050	1.500.00	75.00			
bihydr,	13,400	1.500-00 192-10	·20,100·00 768·40			
Neroform Zinc sulphophenylate	4·000 14·400	15.C0	216.00			
rane parlatolaten, rate	1110	13 00	210 00			

Things Worth Knowing.

By "Hugo."

Don't buy huge stocks at present prices; the times are uncertain and prices fluctuate. Run your business on a safe margin, but don't overstock.

It is a wise thing to keep your eyes open for bargains. Λ good business deal is often carried through outside the usual channels of business.

Remember to oil and wrap your manicure sets and surgical scissors or plated goods before placing back in stock. Timely forethought in this matter will probably save you pounds.

Syrups should now, more than ever, be stocked in a cool place. Our present sugar is a bacterial happy hunting ground.

Don't accept retail-price list figures unreservedly. Almost every issue shows errors, printers' or compilers'.

Don't employ tradesmen except by written contract; their time is money, but their wastage of time is "legion."

Co-operative Societies' Income-tax.

THE following is that section of the Report of the Royal Commission on the Income-tax which refers to the recommendation that in future Co-operative Societies shall be treated on the same basis as limited liability companies ;

SECTION XII.

537. The amount of evidence offered before us and the number of letters which we have received on the subject of the assessment to income-tax of Co-operative Societies and the assessment to income-tax of Co-operative Societies and their members are greater than the importance of the subject might have led us to expect. The great and rapid growth of the co-operative movement in recent years, the number of individual trading competitors who are adversely affected by its progress, and the large section of the community which is interested in the distribution of the societies' surpluses or profits, have eaused public attention to be drawn to this question is a master public attention to be drawn to this question is a master bubble attention. tion to be drawn to this question in a marked degree, and have therefore considered the matter at greater length than is warranted by its importance from an income tax point of view. 538. This is not the first occasion on which the liability

to income-tax of Co-operative Societies has been the subject of a public inquiry. Some years before the co-operative move-ment had begun its recent great advance, the apparently favoured position of these societies had excited so much comment that the Departmental Committee which sat in 1905 asked that their Terms of Reference might be extended so as to embrace the question. After hearing evidence on the subject from traders' organisations, from co-operators. and from Revenue officials, the Committee reported that no

case had been made out for an alteration of the law.

539. Notwithstanding the decision of the 1905 Committee, dissatisfaction with the measure of exemption extended to Co-operative Societies continued to find expression in the Press and occasionally in Parliament. Since 1905 the co-operative movement has grown rapidly, and from the mass of correspondence we have received and the nature of the evidence had before us it is evident that this limit of the evidence laid before us it is evident that this dissatisfaction (chiefly on the part of private traders) has been accentuated by the high rate of income tax now in force.

540. We have been made aware of a feeling among private 540. We have been made aware of a feering among private traders that the growth of the co-operative movement has been intentionally fostered by the exemption given, and that the Legislature has wilfully disregarded the change in the position caused by the lowering of the individual exemption limit, on the one hand, and the increase in the

nominal incomes of wage-carners, on the other.
541. Co-operative Societies may be divided into four classes :

(a) Retail distributive societies;(b) Wholesale distributive societies;

(e) Productive societies; (d) Agricultural societies.

It is not, of course, possible to place every society ex-clusively in one or another of these classes—a society anay belong to both class (b) and to class (c)—but it will be convenient to examine each type of society in the order convenient to examine each type of society in the order named. Retail distributive societies are far more numerous than any other type, and if a detailed examination is made of the principles underlying this particular method of co-operative trading, a brief review of the principles involved in dealing with the other classes of societies will suffice.

542. The sources of income of a retail distributive society

are as follows:

(a) The surplus, or "profit," ealculated by deducting from sales to members the cost of the goods sold and the expenses attending the transactions;

(b) The corresponding surplus or "profit," from sales to

non-members;

(c) Income from the investment of reserves—

(i) in stocks or shares,(ii) in property;

(d) A conventional income (the annual value) from property owned and occupied by the society;

(e) A conventional income (usually twice the annual value)

from the occupation of land;

(f) Dividends on purchases from wholesale societies similar to those paid by retail distributive societies.

543. This income is disposed of by the society as follows:

(a) Payments to members of dividends on purchases calculated on the basis of their individual purchases:

(b) Similar payments to non-members of dividends on purchases;

(c) Dividends (or interest) on shares paid to individual shareholders;

(d) Deposit interest paid to individuals who have placed money on deposit with the society;

(e) Appropriation to reserves.

544, A Co-operative Society registered under the Industrial and Provident Societies Act of 1893 is exempt from that and Provident Societies Act of 1898 is exempt from tax in respect of income from certain sources, unless it be a society, such as the Army and Navy Stores, which has a limited number of shares and makes a practice of selling to non-members. As regards the society itself, it is liable to pay tax under Schedule A on all property owned, and under Schedule B on profits derived from the occupation of land, but it is exempt from all tax under Schedules C and D on trading profits hank interest and dividends on invest. land, but it is exempt from all tax under Schedules C and D on trading profits, bank interest, and dividends on investments. There is a curious anomaly in this position, to which we will refer later. It is sufficient to observe here that if a Co-operative Society invests its surplus funds in War Loan, for example, the resultant income is exempted from tax, but if it invests those funds in acquiring property the society is liable to pay tax either on the basis of the rents received, or on the annual value of the premises if they are occupied by the society.

the rents received, or on the annual value of the premises if they are occupied by the society.

545. It should be clearly understood that the income-tax liability of the individual member of a Co-operative Society is in no way different from that of any other person. As regards dividends on shares (usually called "interest on share capital") paid to shareholders in the society, as distinct from dividends on purchases, although the total share dividend is not assessed directly on the society, each individual shareholder who is liable to income-tax is required by the general provisions of the Droome Tay Acts to return by the general provisions of the Income Tax Acts to return the amount of share dividend received, and he is then

the amount of share dividend received, and he is then directly assessed.

546. We have said that this position is considered to be unsatisfactory by many persons. The arguments of the witnesses who represented private traders were directed to convincing us that Co-operative Societies should be subject to income-tax in respect of the surplus arising from the whole of their transactions; other witnesses suggested that even if the whole surplus were not taxed as an ordinary trading profit, some alternative method of assessment should be adopted which would not give the same ultimate benefits to members as they at present enjoy; and witnesses on behalf of the societies themselves claimed that the existing direct relief to Co-operative Societies should be extended.

547. It was not contended by any witness that the surplus arising on sales by a society to non-members was other than an ordinary trading profit, but there was considerable diversity of opinion as to the proportion which sales to non-members bear to the total turnover. A number of non-members bear to the total turnover. A number of traders' representatives expressed the opinion that a large volume of trade was done with non-members; representatives of the societies alleged that those sales were less than one-half per cent, of the total sales; and the official witness on behalf of the Board of Inland Revenue estimated that they amounted to something less than 2 per cent, of the total. total.

548. No reason was suggested to us why the income obtained by investing reserve funds should be liable to tax if it were derived from property and exempt from tax if it were derived from stocks and shares. Apparently, the utmost that can be said for this somewhat illogical arrangement is that it forms an integral rart of the present system. of dealing with Co-operative Societies, and that if the present system were altered in any detail it would be necessary to review the effect of the alteration on the position as

a whole.

549. The controversy has centred around the true conception of the nature of the surplus arising from sales to members. Two diametrically opposed views as to the nature of this surplus were submitted to us. The first was that it was essentially a trading profit; the second was that it could in no sense be considered a trading profit.

550. We have weighed very earefully all the evidence as to the nature of the result of transactions between a distributive Co-operative Society and its members, and we have come to the conclusion that any part of the net proceeds which is not actually returned to members as "dividend" or "discount" is a profit which should be charged to income-tax.

to income-tax.

551. In making this decision we are fully aware that we 551. In making this decision we are fully aware that we are differing from the considered opinion of the 1995 Committee. We have taken the view that a registered Cooperative Society cannot be regarded merely as a group of individuals; it is as much a separate entity as any other body of persons. If the transaction of purchase and sale were complete when a purchase from the society is effected by a member, then the whole of the surplus arising on sales to members would be taxable profit. We think, however, that the transaction is not really completed until the society has decided what discount it can allow on the aggregate purchases of the member and has paid to him that discount in the form of a "dividend" on purchases. In other words, the so-called "surplus" on members' purchases is not really a surplus at all; it is the result of a book-keeping balance made for the purpose of determining what portion of the nominal purchase price shall be returned to the shareholder. When that discount or rebate on purchase price has been returned to the purchaser, we are of opinion that the surplus remaining in the hands of the society is a true trading profit. We do not agree with the popular prejudice that dividends on purchases, or discounts, ought to be regarded as profits assessable to income-tax simply because they are paid by a Co-operative Society.

paid by a Co-operative Society.

552. But it is not sufficient to look at these discounts in the hands of the society; we must follow them to their ultimate destination. So long as they result in the diminution of the expenditure of a private individual no liability to income-tax can, of course, arise; but if they are in effect a reduction of the purchase price otherwise payable by a trader or a farmer in respect of business transactions, they should be treated as business receipts in any account in which the gross amount of purchases has been charged as

553. Coming now to the question of the surplus on sales to non-members, if no dividends on purchases are paid to non-members, any surplus is, we think, properly to be regarded as a trading profit. Dividends on purchases allowed to non-members are not quite in the same category allowed to non-members are not quite in the same category as dividends paid to members, because in the case of members the discount or dividend is an essential part of the bargain. A purchase by a member is made on the distinct understanding that, if the funds of the society permit, a dividend or discount or rebate will in due course be forthcoming. Whether there is this same implied contract where a non-member purchases we do not know; but the absence of any such understanding would make the dividend of the course of the case of tlends paid to non-mambers even more truly a discount, and

therefore a trading expense to the society.

554. We will now consider the income derived by a Cooperative Society from the investment of its reserve funds. We have already said that there appears to be no sound reason for differentiating between reserves invested in stocks. and shares and reserves invested in property, and we recom-mend that the income derived from invested reserves should, wrespective of the particular mode of investment, be subject

to tax.
555. We recommend, in effect, that a society should be 500. We recommend, in effect, that a society should be treated exactly as a limited liability company trading in similar circumstances and under similar conditions, and if our proposals are acted upon it will be necessary to amend the existing law in so far as it confers special examption on Co-parative Societies.

555. In making these recommendations we are of opinion 555. In making these recommendations we are of opinion that we are not in any way enlarging the scope of the present income-tax. We have not sought to widen or to narrow the conception of trading profit, for we think that from the transactions of a Co-operative Society with its members and with non-members a true trading profit can and does emerge. That profit is the difference between the sale price of the goods and the cost price of the goods plus the expenses of management; and the true sale price of the goods is not the nominal price which the society receives on making a sale to the purchaser, but the net sale price on inaking a sale to the purchaser, but the net sale price remaining in the hands of the society after it has returned to the purchaser a discount in the form of a dividend on purchases. These dividends on purchases are not a distribution of trading profit, but a return of part of the

purchase pri c. 557. No detailed reference to wholesale distributive Co-operative Societies is necessary. These societies have been formed by the retail distributive societies for the purpose of buying in the wholesale market the goods which the members of the retail distributive societies require for their use. The nature of their moome and their manner of disposing of it is practically the same as in the case of the retail societies, the only difference being that their members,

retail societies, the only difference being that their members, instead of being individuals as in the case of retail societies, are the retail societies themselves.

553. Productive Co-operative Societies are of two classes, the majority having been formed by the retail societies for the purpose of manufacturing goods for which there is a demand among their members. The other productive societies are combinations of workpeople with the object of eliminating manufacturing profit by co-operation and so obtaining higher wages. Productive societies have hitherto been exempted on the grounds that the majority of the members are not liable to pay tax, any possible liability having been regarded as covered by the tax paid under Schedules A and B. Tax in respect of the distributed profits (except so far as they have been distributed to hitherto exempt retail societies), has been assessed by a direct charge on the recipient. on the recipient.

559. We recommend that wholesale and productive socie-559. We recommend that whotesate and productive societies should be treated on exactly the same basis as distributive societies. It is perhaps scarcely necessary for us to point out that dividends on purchases paid by these societies to distributive societies will, under our recommendations, be treated as expenses of the paying societies, and as taxable in the hands of the distributive societies in so far as they are not redistributed as dividends on purchases to the members of the distributive societies.

Articles 560, 561, 562 refer to agricultural distributive societies.

553. It was urged by some witnesses that if Co-operative Societies did not contribute by way of income-tax their fair share towards the upkeep of the country, or if the area over which their trading extends becomes so considerable as to diminish materially the income-tax revenue, and this necessitates additional taxation, then some alternative method of taxing them would have to be devised, but in our opinion this question is not one within the province of this Commission. this Commission.

564. The legal obligation to deduct income tax from payments such as yearly interest of money extends to Co-operative Societies, just as it extends to all other persons, and (where the payment is not made out of funds which have already borne tax) a Co-operative Society is liable to account to the Revenue for tax so deducted. Purely as a matter of administrative convenience and economy the Board of Inland Revenue have entered into an arrangement whereby Inland Revenue have entered into an arrangement whereby a Co-operative Society may furnish a list of the names and addresses of liable depositors to whom it pays interest, and such tax as may be due is then recovered by direct assessment on the recipients of the interest. It should be understood that this administrative arrangement is not peculiar to Co-operative Societies, and it is adopted solely in order to avoid the expense and trouble involved in collecting tax and subsequently repaying it to exempt depositors. In any case, the Co-operative Society would not ultimately bear any tax on this interest, for if it were directly assessed on the amount of interest paid it would recoup itself by deducting the tax on payment of the interest.

565. We have recommended in the Section dealing with

565. We have recommended in the Section dealing with Taxation at the Source that when the application of that principle produces the effects indicated in the preceding paragraph, powers should be given to the Inland Revenue authorities to modify the system and to make arrangements authorities to modify the system and to make arrangemente that would avoid the necessity for charging dividends, etc., in certain cases as they arise, and for repaying all or the greater part of the duty to exempt persons or persons liable only at half the standard rate. Agrangements made under these powers would be general in their character, and would apply to Co-operative Societies as to other bodies, and if some such general arrangement were applied by the Board of Inland Revenue to Co-operative Societies there could be no cause of complaint on the ground that Co-operative Societies were receiving preferential treatment, in this Societies were receiving preferential treatment in this

respect.

566. We desire to conclude this section of our Report by saying that in our opinion the changes we have recommended will not result in any great increase of revenue. We believe that there will be very little difference between the liability of Co-operative Societies under our proposals and under the existing legal position that has given rise to so great an amount of feeling, and we think it should be a source of satisfaction to them that, in being treated exactly on the lines of any ordinary trading company, the financial on the lines of any ordinary trading company, the financial effects of the present exemption can in substance be still retained, without recourse to any differential treatment provocative of hostile criticism and recrimination.

New Books.

Adlam, G. H. J. Acids, Alkalis, and Salts. $5\frac{1}{6}$ in. \times $4\frac{3}{6}$ in. Pp. 112. 2s. 6d. Calvert, A. F. Salt and the Salt Industry. $5\frac{1}{6}$ in. \times $4\frac{3}{6}$ in. Pp. 151. 2s. 6d.

Warnes, A. R. Coal Tar and Some of its Products, $5\frac{1}{4}$ in. \times $4\frac{3}{4}$ in. Pp. 105. 2s. 6d. (Sir Isaac Pitman and

Sons, Ltd., 1 Amen Corner, London, E.C. 4.)
[These are three recent volumes in the "Common Commodities and Industries Series" which Messrs. Pitman have been producing for some time. Each of the above contains a concise account in non-technical language of the subjects dealt with. The matter, so far as we have checked it, is accurate, the authors being experts in the matters they write about.]

Birth.

CHAPMAN.—At the Nursing Home, Brighton Road, Croydon, on March 30, the wife of H. E. Chapman, chemist and druggist, of a daughter.

Marriage.

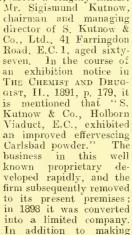
Harding—Tose.—At the Wesleyan Church, Salter's Road, Gosforth, Northumberland, on March 27, by the Rev. — Marshall, George Harding, Ph.C., son of the late Mr. James Harding, Morpeth, to Elizabeth, second daughter of Mr. Thomas Tose, 19 Osborne Terrace,

Deaths.

BOULTON.—At his residence, 27 Engayne Gardens, Upminster, on March 28, Mr. Thomas Shave Boulton, nephew of the late Sir Samuel Boulton, Bart., and late secretary of Burt, Boulton & Haywood, Ltd., manufacturing chemists, Salisbury House, London Wall, London, E.C.2, aged seventy-seven. Mr. Boulton entered the company (then a firm) in 1868, and became secretary on its incorporation in 1898. He retired in December 1918. Mr. Boulton was one of the few surviving Garibaldi veterans.

Collett.—At 113 Queen's Road, Brighton, on March 12, Mr. William James Collett, Ph.C., aged sixty. Mr. Collett was for thirty-one years dispenser at the Brighton, Hove, and Preston Dispensary, and held a similar position at the Women's Hospital, West Street. He was unmarried.

Kutnow.—At his residence, 44 Fitzjohn's Avenue, London, N.W. 3, on March 26, after a lengthy illness, Mr. Sigismund Kutnow,





Mr. S. KUTNOW.

Kutnow's Powder a household word, Mr. Kutnow held office at various times as a Vice-President of the Proprietary Articles Trade Association, a member of the postal, telegraphs, and telephone committee of the London Chamber of Commerce, a member of the British Chamber of Commerce in Paris, and Commissioner-General for Aix-les-Bains. He was at one time interested in a company manufacturing electric clocks, and had the honour of explaining the action of the mechanism to the late King Edward VII. at Buckingham Palace. He was well known also in Masonic circles, and his year of office (1907-8) as Worshipful Master of the Alexandra Palace Lodge was distinguished by munificent gifts to charities. The funeral took place at Willesden Jewish Cemetery on March 30. Mr. Kutnow leaves a widow and a son, Mr. Henry S. Kutnow, M.A., who succeeds him as chairman of the company.

Collins.—At the General Hospital, Johannesburg, on February 29, after a brief illness, Mr. Harry Francis Mr. Collins had been despatch clerk in the Johannesburg office of Petersen, Ltd., for seventeen years, and was previously with Lennon, Ltd. The funeral took place on March 2. The office and warehouses of Petersen, Ltd., were closed, and the following members of the staff attended the ceremony as a last tribute of respect: Messrs. R. Macintosh, M. Cassell, T. Wilson Lyall, E. S. Grennan, D. Greig, H. W. Stone, T. H. Anderson, W. Hunter, A. Mennie, J. Ricketts, and R. Doyle. Wreaths were sent by the directors and staff of Potersen, Ltd., the directors and staff of Sive Bros. & Karnovsky, Ltd., and many others.

Walsh.—At Florenceville, Lausdowne Road, Belfast, on March 22, after a long illness, Lucy, wife of Mr. Jacob

Walsh, R.D., 209 York Street.

Personalities.

Mr. Pottie, son of the late Mr. John Pottie, Edinburgh, has joined the Nottingham staff of Boots, Ltd., as an accountant.

MR. A. ROBINSON, Ph.C., Baildon, Yorkshire, was elected a councillor for the West Ward of the local district council on March 27.

Mr. Norman M. Holloway, youngest son of Mr. E. A. Holloway, chemist and druggist, High Street, Southend-on-Sea, has won the heavy-weight boxing championship of Epsom College, of which he is a prefect.

CAPTAIN D. C. McKelvie, chemist and druggist, was invested by the King with the Military Cross at Buckingham Palace on March 24. Captain McKelvie is manager of Mr. R. S. Hardie's pharmacy at 226 Lordship Lane, Loudon, N. 22.

Mr. Cornelius Bayley, chemist and druggist, Uppingham, had a nasty accident on March 25, while hunting in the Pytchley country. His horse jumped into some wire and fell heavily, Mr. Bayley being rendered unconscious. Fortunately, no bones were broken. The horse, however, was killed, his neck being broken by the violence of the fall. Mr. Bayley, though still confined to his bed, is making satisfactory progress.

We have received from Mr. W. H. Saunders & Co., Ltd.) a letter-card posted in Hong Kong Saunders who remarks, "I am WE have received from Mr. W. H. Saunders (Ayrton, on February 21. Mr. Saunders, who remarks, "I am getting on with my little tour," had just been visiting Manila, where there are some fine pharmacies—"imposing, handsome, well-fitted pharmacies." The next call in Mr. Saunders' itinerary is Japan, and the card on which he writes is an artistic product of that country.

Among the recipients of honours for war services whose names were announced on March 31 are: Knight Grand Cross (G.B.E.), Mr. A. E. Shipley, D.Sc., Vice-Chancellor of Cambridge University. Knights Commanders (K.B.E.), Mr. I. B. Balfour, D.Sc., Professor of Botany at Edinburgh University. Commanders (C.B.E.), Mr. R. M. Bewick, a director of the United Alkali Co., Ltd.; Mr. F. H. Carr (The British Drug Houses. Ltd.); Mr. F. E. Fehr (Thornett & Fehr); Mr. P. F. Frankland, Sc.D. Birmingham University; Mr. P. F. Frankland, Sc.D. Birmingham University; Mr. A. Mansfield (Ministry of Food); Mr. R. A. O'Brien, M.D., director of the Wellcome Physiological Research Laboratories; Mr. W. J. U. Woolcock, O.B.E., M.P. Officers (O.B.E.), Mr. L. A. Baiss, M.R.C.S., L.R.C.P, Cluny Hospital, Swanage; Mr. Harold Idris Bell (son of Mr. C, C. Bell, late of Epworth), editor of the "Daily Review of the Foreign Press"; Mr. W. J. Bowis, Ph. D. a director of Roots Pures "; editor of the "Daily Review of the Foreign Press"; Mr. W. J. Bowis, Ph.D., a director of Boots Pure Drug Co. Ltd.; Mr. T. Edward Lescher (Evans Sons Lescher & Webb, Ltd.); Dr. J. E. Myers, lecturer in chemistry at Manchester University; Mr. H. B. Stevens (John Bell. Hills & Lucas, Ltd.); Mr. C. D. Sykes (Albright & Wilson, Ltd.); Mr. A. W. Tangye (Brunner, Mond & Co., Ltd.), Members (M.B.E.): Mr. M. Barrowcliff (Boots Pure Drug Co., Ltd.); Mr. A. E. Doherty (British Potash Co., Ltd.); Mr. W. J. Durant (the United Alkali Co., Ltd.); Mr. J. Hart, chemist and druggist, R.N. Hospital, Plymouth. Plymouth.

Trade Notes.

WHELPTON'S PILLS AND OINTMENT.—Particulars are given in this issue of special 30s, parcels of these proprietaries.

PHOTOGRAPHIC DEVELOPING.—Olley & Son, Royal Studio, Pier Hill, Southend-on-Sea, offer a postal service of developing and printing. The prices are given in the firm's advertisement.

SOUTHALL'S SANITARY TOWELS.—Some changes have been made in the retail prices of Southall's Towels and a few of the ladies' specialities. A new list of prices will be ready shortly.

CHEMISTS' EXHIBITION.—Among the exhibitors at the Northampton Polytechnic Institute from April 12 to 16 are the Delphinus Manufacturing Co., the Greenwich Lemonade Co., and Robartes, Ltd.

"Crystal Palace" Marking Ink.—Alterations in the price of John Bond's "Crystal Palace" marking ink are announced as from April 1. The minimum retail prices are 5d. or $5\frac{1}{2}d$., and $10\frac{1}{2}d$. to 11d.

"SCINTILLULE SAPIENTIE."—A little book of quotations under this title is being sent out by Oppenheimer, Son & Co., Ltd., 179 Queen Victoria Street, London, E.C. 4. It is the first of the three which comprise the series.

ARION CHEMICALS Co., Perivale Chemical Works, Perivale, Ealing, Londou, W. 13, inform us that there has been some misunderstanding with the postal authorities regarding the company's address. This has caused some delay to correspondence, but has now been rectified.

New Cod-Liver Oil.—Allen & Hanburys, Ltd., Bethnal Green, London, E. 2, submit us the first sample of this year's cod-liver oil. It is a good specimen, and we are glad to hear that the yield of oil is exceptional, so that there is every prospect of an excellent season.

G.O. Lemonade.—The Greenwich Lemonade 11 John Penn Street, Greenwich, London, S.E. 13. are offering an attractive showcard to chemists who intimate on a postcard, their desire to have one. It is a "cut-out" card, printed in colours, with a large large in the card, printed in colours, with a large lemon in the centre.

School of Advertising.—We referred recently to the School of Advertising which has been established by John Morgan Richards & Sons, Ltd., 46 and 47 Holborn Viaduct, London, E.C. 1. The full title is The Active Service School of Advertising, and particulars of the scope of the institution are given in an advertisement in this issue.

PHILIP'S "STANDARD" RETAIL PRICE LIST.—Mr. Charles Philip, 132 Abbeyfield Road, Pitsmoor, Sheffield, announces in this issue that from April 1 he has reduced the price of this list to 5s, per annum, post free. He is enabled to make this reduction owing to the large increase during the past twelve months in the number of subscribers.

Sox is a new tablet-form insecticide for use in agriculture and horticulture which has been devised by Hawker & Botwood, Ltd., 50 Mark Lane, London, E.C. 3. Sox is stated to be deadly to insect life, but harmless to plants. The company have also produced a new weed-killer under the name "Dyoweed," which is non-poisonous. Particu-lars of these goods are given in an advertisement in this

TROMMER PREPARATIONS .- The following are the revised minimum retail prices of the Trommer malt preparations : Elixir and Malt Petroleum and Hypophosphites, 4s. 6d.; Malt and Oil, Malt (Ferrated), Malt and Cascara, Malt and Hypophosphites, Malt Oil and Hypophosphites. Malt and Pepsin, and Malt Iron, Quinine, and Strychnine, 3s. 6d.; Malt (plain), 3s.

P.A.T.A. YEAR-BOOK.—The Proprietary Articles Trade Association Year-book for the current year has just been Association Fear-book for the Carter year. As sociation fear-book for the Carter year. Avenue, London, E.C. 4. The list of protected articles has been made up to December 1919 inclusive. We notice that the volume is thicker than that of last year, and that the list of manufacturers whose goods are protected now comprises 354 names—an increase of forty-five. A list of

retail members and other customary particulars are also given. The annual report and the rules of the Chemists Defence Association, Ltd., occupy the concluding portion

"PHOTOGRAPHIC INDUSTRY OF GREAT BRITAIN."-Under this title the British Photographic Manufacturers' Association, Ltd., Sicilian House, Southampton Row, London, W.C., has issued a handsome volume for circulation in the Overseas Dominions and foreign countries. The book contains a directory of the members of the Association. details of the goods they manufacture, and the trademarks and brand names associated with the goods. In addition there are well-written articles on "British Photography in the Great War," "Photo-Process in the War," and "Standardisation of Sizes of Small-plate Cameras." Some beautiful photographs are reproduced as illustra-tions. An edition entitled "The Official Handbook of the British Photographic Manufacturers' Association be brought out for circulation in the British Isles. Photographic chemists who desire to receive a copy should intimate their wish to a wholesale photographic dealer before April 30.

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated. Sinclair's papain

Zambeletti's soluble iron

B/273. Trubyking's nipples

M/313. "Royal Dorothy soothers (Cook's patent) 8/263. "Puratose" (Geo. Clark & Son. London) M/253. "Sarcomine" arseniate ampoules; London supply B/313. Squire's "Knight" eye ointment

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THD CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C. 4:

Aletric cordial, 204/6 and 200/50
Allcack's plasters, 195/15
Amidopyrin, 197/71
Ammonium chrome alum, 205/271
A visced oil, 205/272
"Auturen," 199/55
Asbestos fibre, 200/35
Asbestos socks, 203/54
"Asplinto" embrecation, 192/3
Comper gauze, 202/29 A-bestos socks, 203/54

"Asplinto" embrocation, 192/3
Copor" ganze, 202/29

"Crembas," 185/19
Crème Simon, 179/53 ard 181/3

"Cremogen," 185/19
"Cross" brand aspirin tablets, 186/49
Drapers' ink, 191/71
"Durham" safety razor, 190/39
Dutch metal, 188/52
"Elite" combs, 195/5
"Equifex" disinfector, 191/70
"Essona" perfumery, 173/16
Filtering apparatus, 199/21
Jones' antiseptic throat pastilles, 187/26
"Kinectine" tablets, 205/28
Lactagol food, 194/31
"Le Negri" tooth-picks, 189/19
Lemon oil, 205/27
Lewis's drops, 165/56
Liquerice root, 187/7
Maisonneuve's prefumer, 189/61 Maisonneuve's 180/61 urethrotome,

cordial, 204/6 and Powder-puffs (French makers), 175/49 pulv. Batavia comp., 195/33 "Rodney" body belt, 196/16 "Ronoleke" hot-water bottle, 186/50 "S.S." tooth-paste, 170/74 "SS." tooth-paste, 170/74 Saccharin, 205/270 Saccharin in crystals (French inquiry), 180/1 Sacco, 172/2 Sal ammoniae (Indian inquiry), 6/33

"Sanagen," 199/56
Scott's emulsion, 187/49
Scidlitz blue paper, 168/38
Senna leaves, 156/38
Sequarine, 181/5
Sequarine (French inquiry), 167/255 167 / 255 Singleton's eye ointment, 170/26 Singleton's eve ointment, 170/2. Skuse's dental cream, 178/63 Smedley's chili paste, 195/15 Smith's primrose olive oi 166/71 Sodium bicarbonate, 205/273 Spring balances, 203/57 Springter stoppers, 152/12 "Stallax," 151/41 Starch-making 158/31 158/31 Stearic acid, 205/275 Stearine, 205/276 Styptol tablets, 153/27 Sulphuric acid, 205/277 Sulphuric acid (Belgian quiry), 120/11 Sulphuric acid (Indian quiry), 6/33 "Sunflower" pomade, 201/4 Suppository moulds, 130/13 (Belgian in-Suppository moulds, 139/13
"Swastica" tooth - brushes, 162/25 162/25
Washing-squares, 171/41
Washing-squares, 171/41
Waterproof sheeting, 202/2
Welch's grape juice, 184/3
Wilson's corega, 170/2
Winslow's soothing syrup, 130/28, 162/29, and 173/15
Woodbury's facial scap, 144/18, 191/73, 160/46, and 204/65

Observations and Reflections. By Xrayser II.

The Choice of a List

of candidates by local associations, such as appears to be contemplated by the London County Association, will inevitably have the effect of confusing the issue before us. Local jealousies and personal considerations will result in a game of cross-purposes, the end of which is more than likely to be an actual if not a moral victory for the dominant party in the Council. I sincerely hope that no pharmacists who are really bent on reforming the Council will submit to any dictation by any association, or commit themselves to any arrangement that hampers their freedom of choice. Unfortunately, we who do not belong to the dominant party have no political organisation for combating the forces arrayed against us; they have virtually such an organisation; they can as a body bring pressure to bear which we can combat by individual effort alone, unless the Progressive Club comes to our aid and marshals us for the fight. In the absence of such leadership all we can do as individuals is to give our votes to new men who profess themselves "agin the Government." It is a somewhat sorry predicament, and I trust we shall be saved from it. If no other leadership offers, will not Mr. Hines, against whom a dead-set is evidently to be made, call on his two sympathetic colleagues in the Council for help, and the three of them undertake the task? The London County Associa-tion, with all the will in the world, can hardly be expected to prepare a list excluding members of its own body who are on the other side.

Mr. Rowsell's Address

to the Manchester Association on the subject of the Ministry of Health leaves us in a good deal of uncertainty as to our position under the Health Act. Mr. Rowsell said he was one of a deputation representing Insurance Committees that was told by Mr. Lloyd George that such a measure the Government could accept, and that such a measure was prepared and accepted. Mr. that such a measure was prepared and accepted. Rowsell is Vice-President of the Pharmaceutical Society, and presumably it was as a pharmacist that he was chosen upon that deputation. One would naturally have supposed that a measure to which he agreed would ensure our continuance as dispensers under the Insurance Act on equitable terms, but it appears from what he after-wards said in answer to Mr. Blain that we cannot be sure of retaining our position on any terms. He thought it "very unlikely" we shall be deprived of it, but more "very unlikely" we shall be deprived of it, but more than that he would not say. He was equally uncertain with respect to the trade in patent medicines—"hopeful," but nothing more. It seems to have been a very onesided agreement that was come to, after all.

Mr. Holmes

is, I am afraid, flogging a dead horse in his praiseworthy attempt to promote the cultivation of medicinal plants in this country on a large scale. Theoretically he has an excellent case; much might no doubt be done towards the realisation of his ideal if there were not so many practical difficulties in the way, but their name is legion. To begin with the one upon which Mr. Holmes himself lays stress—the need of Government support. Clearly, he thinks this essential, and so do I, but what hope of it is there? Mr. Holmes says that other Governments support national industries. True; the German Government and others gave subsidies to chemical, sugar, and similar industries, and we complained bitterly of their doing so; it was "unfair competition" and what not. Now Governments in free countries reflect the national temper, and if we are so individualistic, so set against Government interference, so afraid of Statecontrol, we cannot logically expect much direct help from Governments. We cannot have things both ways. Then there is the land difficulty-not that we have not enough land for all needful purposes if it were all put to the best use; but it is not, and without Government interference it never will be. The transport difficulty is almost equally great; it costs less to bring a bale of goods from

almost any foreign port than to carry it from Newcastle There is, again, the difficulty of starting to London. any new industry in an old country full of local prejudices and preoccupations, and it is multiplied a hundred-fold by the variety of plants to be cultivated. Finally, there is the general indifference, not to say apathy, of all classes among us towards any scheme that does not promise immediate profit on a fairly large scale, added to the ignorance and lack of imagination of our people. Altogether I think we are about the last people likely to take up such a speculative scheme as this, and I am afraid Mr. Holmes will find he has a very long row to hoe.

"Medieval Medicine" a little book by Dr. J. J. Walsh, of Fordham University, U.S.A. (A. & C. Black, 7s. 6d.), is necessarily somewhat slight and sketchy, dealing, as it does, with the history of medicine from the fifth to the beginning of the fifteenth century; and being intended for students rather than experts it makes no pretence of deep research. Dr. Walsh draws his information from second-hand, not original sources, quotes foreign authors in English translations, and even makes Bartholomæus Anglicus, who, as he knows wrote in Latin, responsible for the phrase "a wood hound," meaning a mad dog. The condensation necessary in a work of little more than 200 pages causes a slight obscurity now and then, one fact being set so sharply against another that it is intended to qualify as to make them appear mutually contradictory, and the arrangement into chapters each of which treats of a special department of the subject leads to occasional overlapping. author seems sometimes to have been embarrassed by the riches at his disposal, and has not invariably used them to the best advantage. His main thesis appears to be that the medical history of the Middle Ages, instead of being, as is generally supposed, one of virtual stagnation and helpess dependence upon antiquity, really shows rather remarkable progress, especially in surgery, and an anticipation of many of the so-called discoveries of modern I must leave it for better instructed critics to say whether he proves his case, but I am inclined to think he exaggerates it. He has however written a very interesting book, every page of which provokes thought. Still, it is difficult to believe that so much sound

Medieval Science

has been lost as must have been if medicine in the period of which he treats made the advance claimed for it. True, it is chiefly of surgery that he speaks in this regard, and he dismisses contemptuously the "poly-pharmacy" of the time, which he attributes to the Arabians, whom he persistently depreciates, to the exaltation of the Greeks. He maintains that even at Salerno and Montpellier Greek influence was largely predominant. It was, he says, the opposition of the Church to culture, and especially to science, that led Christian writers to attribute to the Arabians so much more than they really contributed to the advance of medicine. Many of the more famous medical men of the period under review were, however, ecclesiastics, and the hospitals that played so large a part in medical teaching were Christian in origin. Church influence can hardly, therefore, have been so adverse to science as his statement would make it appear. That Dr. Walsh exaggerates the merits of medieval surgery may be inferred from what he says of the use of antiseptics and anæsthetics. He admits that the use of wine as an antiseptic was anticipated by the Good Samaritan; and the antiseptic inhalant he attributes to Guy de Chauliac, the subsequent disuse of which so amazes him, was probably abandoned because it proved ineffective. The holding to the nose of a sponge first saturated with the juice of poppy or "morel" or hemlock (or of all three) and then dipped in "warm" water would hardly make a patient insensible under the very rough surgery of the fourteenth century, and we know from other authorities that the "dwale" used for this purpose was a drink composed of these ingredients. "Make hym to drinke ther-of till he falle on slepe. And thanne men may safly caruen hym" is the direction given in the receipt in Professor Henslowe's "Medical Works of the Fourteenth Century."

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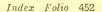
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Editorial Articles.

Taxation on Alcohol.

THE coming Budget and the need for increased taxation inevitably cause the pharmaceutical mind to think in terms of dutiable spirit. The principle of rebate has tended to concentrate the manufacture of alcoholic preparations into the hands of the wholesale chemists, though many retailers still make their own tinctures and spirits, and claim the rebate where it is allowed. It can be easily shown to any Profiteering Tribunal that on alcoholic medicinal preparations it is not the wholesaler



or retailer alone concerned in the charges to the consumer, seeing that the Government tax on alcohol is 51s. 6d. per proof gallon, which must be paid before getting the alcohol, and on the so-called "potable" preparations the Revenue does not even allow a rebate. The public can easily see the taxed amount on a proprietary article, but would be surprised to know there is a much higher tax on essentia menthæ piperitæ. A hair-lotion was dispensed the other day, largely alcoholic and containing mercuric chloride. The price charged was 8s. 6d., of which 2s. 2d. was taxation. The duty on 1 oz. of proof spirit is 3.8d. where rebate is not allowed, while on some spirits, after allowance for the oil contained, there is a tax of 5.5d. per oz. Where the rebate is allowed it varies from 1.8d. to 2.8d. per oz., according to the composition. Tinctures are more complicated, not only on account of the medicament, but also because of loss of menstruum in the preparation of the tincture. Exact figures can scarcely be given owing to loss, but two of these, tr. aurantii and tr. zingib. fort., pay the full duty, and will be equivalent to nearly 6d. per oz. Rectified tinctures with the rebate allowed pay approximately 1.7d. per oz.; 70 per cent. tinctures, 1.3d. per oz.; 60 per cent. tinctures, 1.15d. per oz.; 45 per cent., nearly 0.9d. per oz.; and 20 per cent. alcoholic preserved preparations, 0.4d. per oz. It is interesting to note that in one dispensing establishment where they prepared their own tinctures they paid in duty 241. per annum on those where the rebate is allowed, and 211. on the so-called potable medicinal preparations where the rebate is not allowed, making a Government tax on medicinal preparations for this business of 45l. per annum.

German Reparation Chemicals.

On p. 74 of this issue we publish an interesting and full list of the stocks of German pharmaceutical chemicals on which the Allies have an option. This list has been published in several American contemporaries, and although a similar one has no doubt been received in this country, it would not be in accordance with the traditional "hush-hush" policy of the authorities to follow the publicity methods of the United States. At this stage it is interesting to recall the exact wording of the Peace Treaty in connection with this matter:

Article 8 of Annex VI. to the chapter on Reparations of the Treaty of Peace with Germany states: "Germany accords to the Reparation Commission an option to require as part of reparation the delivery by Germany of such quantities and kinds of dyestuffs and chemical drugs as the Commission may designate, not exceeding 50 per cent. of the total stock of each and every kind of dyestuff and chemical drug in Germany or under German control at the date of the coming into force of the present Treaty. This option shall be exercised within sixty days of the receipt by the Commission of such particulars as to stocks as may be considered necessary by the Commission."

It is also somewhat disconcerting—to use no stronger term—to learn that manufacturers of chemical products in the United States were in possession of this full list over a month ago. The news that it had been received by the War Trade Board in Washington apparently caused considerable excitement in chemical-manufacturing circles in the United States, and we gather that so far back as February 27, some fifty representatives went to Washington to meet the War Trade Board, animated by totally dissimilar objects, since some went to protest against the importation of chemicals enumerated in this list, while others went with the intention of favouring such imports. Among those present were members of the Executive Com-

representatives of the Tariff Commission and other branches of the Government service. A number of recommendations were submitted by the drug trades, but they were not made public. No decision was reached, and another conference is to be held at a later date. However, a calmer consideration of the list has apparently led to the realisation that the majority of these products are in no way competitive with American products, being for the most part preparations the manufacture of which has not been undertaken. As the United States Government have not yet ratified the Treaty, and that country is consequently technically still at war with Germany, this fact may raise the academic question of the extent of American participation in the distribution of these stocks, particularly in view of the rumours that the United States may negotiate a separate peace treaty with Germany. Apart from the United States, there are twenty-six participants in the distribution of these stocks, whereby the British Empire is considered as a single unit. In presenting to our readers this almost complete list of German chemicals available for distribution by the Reparation Commission, we give the total amount in kilograms of each product, the price per kilogram in marks, as established on September 20, 1919, and the total value in marks of the amount of each chemical. We also give the grand total, showing a net weight of 227,405 kilos, and a value of 37,400,192 marks. A careful study of this highly interesting list brings forth some startling facts. For a country which for over four years has devoted its entire energies to the manufacture of agents of destruction, the amounts of certain drugs available are comparatively high, particularly when we bear in mind the fact that these amounts constitute only one-half of the total stock held by Germany. This is especially the case with such products as acetylsalicylic acid, diethylbarbituric acid, salicylic acid, anæsthesin, antipyrin, aspirin, heroin, migranin, novocain, phenacetin, pyramidon, quinine salts, tropacocaine, and urotropin, and in view of these figures it is somewhat difficult to reconcile the amounts still available for the German market with the recent statements of an acute shortage, unless we assume that enormous quantities have actually been illicitly smuggled out of Germany. The list is also surprising for the number of trade-marked and patented chemicals it contains, many of which have never been heard of before in this country, and it is very doubtful if any such would be welcome here now. We are quite sure that nobody in British chemical circles has a wish to be allocated a number of unknown German proprietary articles, although they are given to us by way of so-called reparation. Moreover, we should think the Reparation Committee has the power to reject these en bloc if necessary. We have omitted a number of these from our list where the amount available is less than one kilogram. There is, of course, no objection to the distribution, pro rata, of the other staple chemicals in general use and not distinguished by any individual trade-name. The list is also notable for the omission of any reference to the bromide salts, and of potassium salts two only are mentioned-viz., potassium benzoate and potassium salicylate, for which there is only a small demand in this country. The distribution of these chemicals is going to be a delicate matter, and is likely to give rise to much perturbation among British chemical manufacturers. To enable a few comparisons to be drawn we give the following figures, showing Germany's exports and imports of pharmaceutical chemical products, according to the official classification,

mittee of the National Drug Trades Conference, also

for the year 1913 (the latest date for which complete figures are available):

		ports	Im	ports	
-			Imports		
	Kilo- grams	Marks	Kilo- grams	Marks	
Ouinine and its salts	113,021 13,428 13,088 44,406 — 146,000 1,291,000 131,000 131,000 297,000 78,000 97,000	21,313,000 1,149,000 1,884,000 3,177,000 6,007,000 872,000 2,303,000	13,000 40,840 ————————————————————————————————————	350,000 11,107,000 —————————————————————————————————	
of which to Great Britain. of which Tom Russia		949,000 1,091,000	15,000	3,045,000	

The Break in Turpentine.

In the early part of March the price of spot and near delivery of American turpentine oil had reached the highest price on record—viz., 250s. per cwt.—having more than doubled itself in somewhat less than seven months. The break which has now taken place in the price, especially within the last fortnight or so, has been rather severe, amounting to fully 30s. per cwt. for near positions, and although this has been more sudden than had been expected, there is no doubt that this marked evidence of badly needed relief to manufacturers was to a large extent the outcome of the reported recent large arrival. Owing to the freer supply of spot spirit, holders have, of course, been more eager sellers, and dealers have reduced their quotations for contract-deliveries over the second half of the year from about 145s. to 135s. per cwt. At the moment the tendency is somewhat steadier at the lower levels, but the aspect of the market is certainly not such as to encourage purchases beyond urgent needs. The time is now not far distant when newcrop spirit will be received from distillers' hands in America. How far prices may yet fall in the course of April chiefly depends on the state of the American market and the attitude of the so-called distillers' "ring," which will doubtless squeeze all they can from needy domestic and export buyers, while the consuming markets must be expected to remain more or less under the influence of the acute scarcity experienced for some few months past. Trade interests on this side who had made their arrangements some time ago for the financing of stock which tended to facilitate the extraordinary rise, have evidently been influenced in their yielding attitude by the rapid recovery in the American rate of exchange, apart from the relief-arrival referred to. The American consumptive demand has been very active within recent months, the considerable seasonal requirements of the paint and other important consuming trades having, indeed, greatly contributed to the upward swing, while this factor, alongside of the good export outlet, has proved the more effective in the light of the shortened crop in the past year. Distillers' costs have admittedly risen considerably, but they have had a golden opportunity to recoup themselves largely under their policy in the matter of

arbitrary terms to the world's markets. In view of the impoverished stocks in the export markets during the last few years and the much-reduced American production in the season now nearing the end, phenomenal tightness became inevitable as soon as a large portion of this season's yield had already been accounted for, towards last autumn. There was already a loud cry from home consumers in the earlier part of August last year, when the price of spot spirit was lifted above the 120s. mark. The shortage of the crop then began to be realised by shrewd dealers, and this proved an incentive for the prosecution of a remarkable speculative movement, which resulted in a notable premium being established towards the autumn for delivery in the first four months of this year. were some transient setbacks in prices during the earlier part of the winter, but American influences became so aggressively strong that an active wave of speculation ensued, which was assisted by the constant fall in the rate of the American exchange. In the early part of November spot and forward deliveries differed but little in value, but a somewhat startling change followed later in the year, when indications became perceptible of a considerable falling-off in the imports. During January and February the running-up of prices in near positions was of so spectacular a character as to leave the value of distant spirit at a backwardation of over 100s. per cwt. when the spot price reached its culminating point of 250s. The swing of the pendulum has lately been forced right the other way, but irregular and possibly sharp ups and downs may yet be seen until urgent needs are satisfied, or the prospects of the new season's yield can be approximately gauged. The industry may still be hindered in no small degree by labour deficiency, but it may be reasonably assumed that the phenomenally high prices ruling should prove a strong incentive for the acceleration of distillers' operations, and it is certain that the new distillers' campaign will result in a good increase in the yield against the season now about to end. This, at any rate, may be inferred from the terms now entertained on distant contracts, compared with the preposterously high premium still ruling for near delivery. Whether prices will be allowed to dwindle to two figures when the full weight of the yield begins to be felt in the summer months is a question which it is as yet rather premature to discuss. It must be remembered that the needs of the world's markets will be very considerable for another year or so, at any rate, while there is undoubtedly an enormous amount of decorating work to be taken in hand, to say nothing of requirements in other directions. A return to anything like a pre-war level of prices seems out of question for some few years to come, although it is probable that the supply of substitutes will increase as time goes on, and this may prove an important factor in checking the arbitrary policy of the American turpentine "ring." Our imports during February last were only 406 tons, compared with 1,055 tons and 1,322 tons respectively for the same month last year and the year prior to the war. The total for two months thus represents 1,535 tons, against 1,654 tons for the same period of 1919, and 1,979 tons in 1913. The total quantity re-exported in the two months was 315 tons, against only 19 tons and 176 tons respectively in the corresponding periods of 1919 and 1913. Only small supplies are coming forward from Continental countries, including Sweden and Norway, where the industry appears to be making fair progress, a development which has probably been facilitated by the inflated prices obtainable under present exceptional conditions. Supplies from Russia in pre-war times were of

some importance, but there is yet no prospect of resources from that country being restored. Shortage of supplies of resin has been somewhat proportionate, of course, to that of turpentine. The American export demand for resin has been less active than for turpentine, although it is reported that some orders from European countries have been booked in America for considerable tonnages.

The Pharmaceutical War Memorial.

A MEMORIAL to the late Lieut,-Colonel E. F. Harrison is to be placed in the rooms of the Chemical Society at Burlington House, and it is intended that the names of all those Fellows who fell in action or died on service shall appear in close proximity to the memorial. It was always understood that the Pharmaceutical Society would at least place in a prominent position in the premises at Bloomsbury Square the names of those registered chemists who have given their lives for the country in the Great War. This is not an extravagant proposal, and such a record would be more inspiring to future genera-tions than lists of persons who have given money to the Society. We hear, however, that the present intention is to write the names in a book and place it in the librarysurely an inappropriate way of recognising noble sacrifices. The record is also to contain the names of those who "stayed at home"—another ignoble suggestion, in our opinion.

The Registration of Specialities in Spain.

LAST year we published in The CHEMIST AND DRUGGIST (August 30, p. 51, and October 18, p. 48) the provisions of the Spanish law of March 6, 1919, which requires that all specialities sold in Spain must be registered with the Inspeccion General de Sanidad, and preparations not registered in accordance with these regulations will be treated as secret remedies, the sale of which is prohibited. The time limit allowed to Spanish manufacturers to register their preparations expires month by month, and the registration of foreign specialities begins. This is to be effected monthly, according to the first letter of the name of the preparation; thus registration of all preparations the first letter of which is A must be applied for during March; of letters B, C, Ch, in April; D, E, May; F, G, June; H, I, J, K, July; L, M, N, O, August; P, September; Q, R, S, October; T to Z, November. Special forms are provided for making this application, one form being required for each speciality. On this form the name of the preparation, of the manufacturer, and the composition of the preparation must be stated; in addition, the fact that the responsible person for its preparation is a duly qualified pharmacist must be attested by the competent health authority (Ministry of Public Health or other Government Department), and also that the preparation is in current sale in the country of origin. This attestation must be legalised by the signature of the Spanish Consul. The name and address of the manufacturer's representative in Spain must also be stated on this form of appli-cation. The latter must be accompanied by three packages of the speciality in question, and three copies of the label, wrapper, and prospectuses referring to the The latter are required to indicate the composition of the preparation. At the same time the applicant must attach a brief declaration of the reasons which induce him to place the preparation on the market in the form of a speciality. Dr. J. Vallés y Ribó, Sub-Delegate of Pharmacy, and Editor of the "Restaurador Farmaceutico" of Barcelona, will be pleased to give any information regarding the registration of specialities in Spain. The sub-delegates of pharmacy are required by this decree to inspect all the laboratories in Spain in which foreign specialities are being manufactured, which will be granted a period of two years in which to comply with the laws in force in Spain, and if after that period they elect to import the speciality hitherto manufactured, instead of ceding all rights in it to a Spanish pharmacist, the preparation must be duly registered prior to continuing to be on sale in Spain. Non-observance of the time fixed for the registration of a speciality, as stated above, entails payment of double the prescribed registration fee.

The Supplement to the French Codex.

The Supplement to the French Codex was issued only a few days before April 1, the date of its official application, and in its preface contains an apology for not including such products as colloidal silver, ethylmorphine, emetine, the various arseno-benzol compounds, atoxyl, quinine formate, quinine ethylcarbonate, bismuth carbonate, sodium glycerophosphate, calomel ointment, etc. explanation follows immediately, to the effect that when the Commission had terminated its work, and the Supplement was ready in its present form, in August 1914, the war broke out. The new Commission, appointed November 4, 1918, decided that the inclusion of new articles would necessitate going over the whole ground again, and would entail a further delay in publication. It is interesting to note that the Commission has, in modifying the tests for some products, decided that a certain latitude might be allowed with regard to the presence of traces of impurities which cannot be avoided in the process of manufacture, so long as these do not affect the therapeutic action of the product.

The Commission, however, has decided upon an innovation, to the effect that additions which may be considered necessary will from time to time be published in the Official Gazette and in the "Bulletin de l'Académie de Médecine," to legalise the use of such products, pending the issue of a new edition of the Codex. This course has been dictated by the legal consideration that all preparations not included in the Codex are regarded as secret remedies; thus, until the issue of the present Supplement, the pharmacist who dispensed on a prescription hexamethylentetramin, to quote an example, was infringing the law by delivering a secret remedy.

The present Supplement is a volume of 100 pages. Twelve new preparations have been included, viz. :

Diethylmalonyl urca (barbituric acid),

Dimethylamino-dimethylethyl-benzoylearbinol hydrochlode (stovaine). Fluid extract of cinchona.

Hexamethylentetramin (urotropin).

Oil of cade.

Para-aminobenzoyl-diethylaminoethanol hydrochloride

Piperazine hydrate.

Menthol ointment.
Solution of silver nitrate 2 per cent.

Iodated tineture of iodine. Antidysenterie scrum.

Antimeningococcic serum.

In addition, the articles referring to 186 official substances are deleted or modified to a varying degree. In the following notes we will deal only with the more striking innovations introduced by the Supplement, be-ginning with the additions made to the list of official drugs.

DIETHYLBARBITURIC ACID.—Melting point 190°-191°. Its aqueous solution feebly reddens blue litmus (B.P.: is neutral to litmus paper). Ask on incineration: not exceed-

ing 0.1 per cent.

Ing 0.1 per cent.

STOVANE.—A white crystalline powder, melting at 175°. readily soluble in water and in methyl alcohol. The aqueous solution is slightly acid to litmus, but neutral to helianthin, and is without action on polarised light. The free base, precipitated by caustic alkalis and carbonates, and also by sodium borate, is oily, and soluble in ether. It also yields oily, or with difficulty crystallisable, precipitates with the principal reagents for alkaloids, whereas gold chloride and pieric acid throw down crystalline compounds.

On adding dron by dron 2 c.c. of water to a mixture of chloride and pieric acid throw down crystalline compounds. On adding drop by drop 2 c.c. of water to a mixture of 0.1 gram of stovaine and 0.5 c.c. of sulphuric acid, which has been heated on the water-bath for one minute, fine needles of benzoic acid appear. A characteristic aromatic odour is produced on heating 0.03 gram of stovaine with 5 drops of nitric acid on the water-bath to dryness, and adding to the residue a few drops of solution of caustic soda. FLUID EXTRACT OF CINCHONA.—This article reads as follows: Prenare a mixture of 150 grams of dilute hydrochloric acid with 4,000 grams of distilled water; 600 grams of this liquid are used to moi ten 1,000 grams of powdered

cinchona bark, so as to produce a homogeneous mass. After standing for two hours, it is transferred to a non-metallic percolator, a further amount of the above liquid is added, percolator, a further amount of the above liquid is added, and as soon as the first drops appear the lower orifice is closed, and the percolator covered, and the contents allowed to macerate for forty-eight hours. At the end of this period percolation is resumed, and the first portion of 600 grams obtained is collected and set aside. After completing percolation with the remainder of the acid liquid it is continued, first by means of a mixture of 20 grams of dilute hydrochloric acid and 8,000 grams of distilled water, theu by distilled water along until the drop is exhausted. hydrochloric acid and 8,000 grams of distilled water, theu by distilled water alone, until the drug is exhausted—i.e., until 2 drops of the percolate are no longer rendered cloudy on the addition of 4 drops of a 20-per-cent, solution of sodium carbonate. The collected percolates are concentrated to 250 grams, and this residue is now mixed with the portion of 600 grams set aside at the beginning of the operation. To the mixture 50 grams of dilute hydrochloric acid are added, the whole is shaken, set aside, and then liltered, and the weight made up to 1,000 grams by the addition of 120 grams of alcohol (95 per cent.).

FLUID EXTRACT OF CINCHONA is a clear reddish-brown liquid, with an astringent bitter taste, and a pronounced odour of cinchona; it is not rendered cloudy by the addition of water or alcohol; 100 grams contain 3.5 grams of total alkaloids.

HEXAMETHYLENTETRAMIN.—A 5 per cent, aqueous solution yields a white precipitate on the addition of tannic acid and of mercuric chloride. The same solution yields a white precipitate on the addition of silver nitrate, which is soluble in an excess of hexamethylentetramin. It is required to dissolve without coloration in sulphuric acid. It is further tested for the absence of sulphuric acid, hydrochloric acid, beavy metals, and ammonium salts, and the ash on incineration should not exceed 0.1 per cent.

Oil of Cade. Its specific gravity is slightly lower than that of water, and on shaking with water it forms globules which rise but slowly to the surface. The B.P. test for the which rise but slowly to the surface. T presence of pine tar has been included.

which rise but slowly to the surface. The B.P. test for the presence of pine tar has been included. Novocana.—Colourless, odourless small crystals, with a slightly nanseous taste, melting at 156°. Soluble in its weight of water, and 1 in 30 of alcohol (95 per cent.); insoluble in ether. The aqueous solution is optically inactive, and is neutral to litmus. A 10 per cent. aqueous solution yields on the addition of solution of caustic soda an oily precipitate which rapidly becomes crystalline; no precipitate occurs on the addition of solution of bicarbonate of sodium. Solutions of novocain give the general reactions for alkaloids; pieric acid yields a yellow precipitate, and mercuric chloride a white precipitate. The addition of a 10 per cent. solution of zinc chloride to a 5 per cent. solution of novocain be dissolved in 5 c.c. of water, and 1 c.f. of dilute hydrochloric acid and 3 drops of a 10-percent. solution of sodium nitrite be added, then the resulting solution mixed with a solution of 0.2 gram of β -naphthol in 10 c.c. of normal solution of sodium hydroxide, a scarlet red precipitate is produced. 1 c.c. of sodium hydroxide, a scarlet red precipitate is produced. 1 c.c. of sodium hydroxide, a scarlet red precipitate is produced. 1 c.c. of sodium hydroxide, a scarlet red precipitate is produced. 1 c.c. of sodium hydroxide, a scarlet red precipitate is produced. 1 c.c. of sodium hydroxide, a scarlet red precipitate is produced. 1 c.c. of sodium hydroxide, a scarlet red precipitate is produced. 1 c.c. of sodium hydroxide, a scarlet red precipitate is produced. 1 c.c. of sodium hydroxide, a scarlet red precipitate is produced. 1 c.c. of sodium hydroxide, a scarlet red precipitate is produced. 1 c.c. of sodium hydroxide, a scarlet red precipitate is produced. 1 c.c. of sodium hydroxide, a scarlet red precipitate is produced. 1 c.c. of sodium hydroxide, a scarlet red precipitate is produced. 1 c.c. of sodium hydroxide, a scarlet red precipitate is produced. 1 c.c. of sodium hydroxide, a scarlet red precipitate

PIPERAZINE HYDRATE.—The official salt, corresponding to the formula C₄H₁₀N₂+6H₂O, contains 55.67 parts of water, and 44.33 parts of anhydrous piperazine. It occurs as colourless crystals melting at 44°. It is very soluble in water, soluble 1 in 2 of alcohol (97 per cent.), insoluble in water. It behaves as a di-acid base in the presence of most of the coloured reagents but as a mono-good base in the ether. It behaves as a di-acid base in the presence of most of the coloured reagents, but as a mono-acid base in the presence of phenolphthalein. A 1-per-cent, solution of piperazine hydrate in alcohol (80 per cent.) yields a precipitate on the addition of an equal volume of a mixture of 1 gram of carbon disulphide in 100 grams of alcohol (80 per cent.); this precipitate is still apparent with a solution of 1 in 10,000, 10 c.c. of a solution of 2 grams of piperazine hydrate in 100 c.c. of water require for saturation at least 20 e.c. of 10/V solution of sulphuric acid, using helianthin as indicator. as indicator.

MENTHOL CINTMENT.-A 1 per cent. mixture of menthol

Solution of Silver Nitrate 2 per Cent.—The sub-title of this preparation is "Preventive Solution against Ophthalmia Neonatorum," and 5 grams of it are to be put up in ambercoloured glass-stoppered bottles, with a label bearing, in addition to its title, the statement: One drop to be instilled into each eye immediately after birth.

IODATED TINCTURE OF IODINE:

Iodine Potassium iodide ... 10 grams 4 grams Potassium iodide Alcohol (90 per cent.) ... 136 grams

Among the modifications introduced in the text of certain articles of the Codex we may mention the following alterations:

ACID. ACETICUM is now required to have a minimum content of 98 per cent. of pure acid.

AMMONIUM VALERIANATE.—May be slightly acid to litmus.

APIOL.—To be deleted.

Assettion.—The amount of residue on incineration permitted has been increased from 10 to 20 per cent.

Balsam of Peru.—Is required to contain 52 to 56 per cent.

of cinnamein.
BDELLIUM.—To be deleted.

BISMUTH SUBNITRATE.—Slight opalescence on the addition of solution of silver nitrate is now permitted. Further, all products may be used which do not yield more than 81 per cent. of anhydrous bismuth oxide.

CHIDRAL HYDRATE.—Is permitted to be very slightly acid

litmus.

CHRYSOPHANIC ACID.—To be deleted.

KOLA-NUT.—The use of nuts from other species or varieties permitted, provided that they have a content of at least 1.25 per cent, of caffeine.

FERROUS CHLORIDE.—To be deleted.

PANCREUTIN.—Is required to peptonise at least 50 times its own weight of dried fibrin.

Persin.—Is required to pertonise at least 100 times its own weight of dried fibrin.

Phenol.—The melting point has been altered from 42.5°

Potassium Bromide.—The following test for the presence of chlorides has been added: 5 c.c. of a 10 per cent. solution of potassium bromide are mixed with a solution of equal parts (by weight) of sulphuric acid and water, and 16 c.c. of a saturated solution of permanganate of potassium. This mixture is submitted to distillation, and the distillate is collected in a tube placed in cold water and containing 10 c.c. of the following mixture:

Water saturated with anilin ... Water saturated with orthotoluidin 30 c.c. Acetic acid (98 per cent.)

A white precipitate will be produced, due to the action of the bromine on the anilin, but at the same time, if the salt contains a notable amount of chlorine, the liquid will assume, first a blue, then a violet-red, coloration. The latter should not occur with the official salt, at least not within fifteen minutes.

POWDER AGAINST CORYZA.—The formula now reads:

Bismuth salicylate 45 grams Menthol 1 gram

RESORCIN.—The melting point has been altered from 119° to 110°-111°.

SODIUM BENZOATE.-The anhydrous salt (instead of the

SODIUM BENZOATE.—The anhydrous salt (instead of the salt with one molecule of water) is now official.

SODIUM CACONLATE.—In the place of the anhydrous salt, a salt with 2.5 molecules of water is now official, containing 75 to 78 per cent, of anhydrous sodium cacodylate.

SODIUM SALICYLATE.—In the place of the salt with 1 molecule of water, the anhydrous salt is now official.

STROPHANTHUS.—The seeds of Strophanthus kombé are now admitted, in addition to those of Strophanthus hispidus, and a description of the Kombé variety is given.

STRYCHNINE.—The optical rotation has been altered from —134° at +20° to —31.5° at +25°.

STRYCHNINE STLPHATE.—The optical rotation has been altered from —66.6° at +15° to —26° at +25°.

The substitution of saccharin for sugar in restaurants and teashops is not at all popular, states a writer in the "Hotel Review," adding that the afternoon-tea trade shows a considerable falling away.

EXPLOITING CHINA.—A chain of American drug stores is to be established throughout China as rapidly as the necessary arrangements can be made, it being planned ultimately to have branch stores in Tientsin, Peking, Sianfu, Changsha, Canton, Swatow, Amoy, Foochow, and Hongkong. In order to supply the needs of the new stores the company will erect four new buildings in Shanghai, where many kinds of pharmaceutical commodities will be manufactured.

The Personal Factor in Pharmacy.

By C. T. Allen, Ph.C.

PHARMACISTS who accept the duty of providing a dispensing service for the compounding of medicines at all times—reasonable or otherwise—do so on a voluntary basis. Those who are best fitted to judge (namely, dispensing pharmacists themselves) will agree that the conduct of an efficient dispensing-service is a task which stemands a far greater degree of work and responsibility than is required by any other department run in connection with the business of a chemist and druggist. To such an extent has that fact become evident that there exist to-day many pharmacists who have found that they can apply their knowledge and ability more congenially and to better financial advantage by not accepting the dispensing of medicines as a primary considera-On the other hand, there are still many pharmacists whose liking for the work of dispensing is sufficiently strong to induce acceptance of the extra work and responsibility involved, despite the fact that no pharmacist has ever made a fortune by a dispensing practice.

Efficient dispensing-service depends upon individual efficiency and character. Any pharmacist could give examples of prescriptions in which variation in the standard of medicament ordered would be extremely improbable, and in which the therapeutic value of the medicament when administered depends entirely upon the efficiency of the dispensing-service—in other words, the personal factor. Looking at the matter from the financial point of view, the cost of the dispensing-service for the time involved exceeds the cost of the medicaments prescribed in the case of most prescriptions. A careful investigation, even by laymen, into the conditions under which the dispensing of medicines is carried on in this country would reveal the fact (which dispensing pharmacists fully realise) that efficiency of dispensing-service is mainly dependent upon the degree of skill and care exercised by the individual or individuals who render

such service.

Pharmacists who make arrangements to dispense medicines at practically all times are rendering a necessary public service; and the continuance of such service is as essential, as the existence of our fire brigades. therefore, not in the public interest that the practice of the art of pharmacy should be regarded by the State on a purely commercial basis. The national interest would be better served by co-operation between medicine and pharmacy, as in the past, with a view to promoting:
(a) Pharmaceutical research; (b) pharmacopœial improvements; (c) economical methods of prescribing; (d) greater uniformity in dispensing service; (e) the discouragement of self-drugging by secret remedies. At the present time a dispensing pharmacist undertaking Insurance work receives documents from the Ministry of Health in which reference is made to the professional service which, as a pharmacist, he is officially admitted to be capable of rendering. On the other hand, he is confronted with the fact that if he dispenses a private prescription for a grain of strychnine divided into thirtytwo pills he is held to be selling the patient a halfpennyworth of strychnine. Such a situation is entirely anomalous, and not calculated to stimulate the practice of pharmacy nor to encourage the most suitable types of individuals to enter the calling. In addition, co-operation between medicine and pharmacy would be deprived of great possibilities unless the predominant importance of the personal factor in respect of the practice of pharmacy is fully recognised and established. Meantime, and until reconstruction is effected, it is to be hoped that no dispensing pharmacist will allow any misunderstanding tending to minimise the value of his work to hinder him in carrying on.

The problems presented through changes in all costs connected with the conduct of dispensing-service have received considerable attention during the past two or

The dispensing of a prescription usually three years. involves the compounding of medicaments according to a special formula, and is, in fact, manufacturing on a small scale. In the majority of cases the cost of manufacturing (that is, the dispensing-service) exceeds the cost of the materials used. The charge made for dispensing a prescription, therefore, should depend more upon the character and efficiency of the service provided than upon the cost of the materials used. In many instances the only foundation upon which a charge can be based is the cost of the dispensing-service for the time involved, the cost of the materials used being comparatively negligible. Apart from the dispensing department, the business of a pharmacist is largely in articles which have been purchased ready for sale; and the price at which they are invoiced naturally includes the cost of manufacture. The retailing of articles kept ready for sale yields returns far more quickly than a dispensing department can do. Probably the return from a dispenser's work does not average more than one-fourth of the return obtainable from sales of ready-made articles if the same individual were employed in such work for a similar length of time. It follows that the cost of dispensing-service has to be considered fully, especially in pharmacies where the amount of dispensing carried on is considerable. As the result of some experience of the subject, the writer feels confident that the system of basing dispensing-charges upon the total cost in each case is the most equitable method which can be devised. The cost of ingredients is easily ascertained from current price-lists, and there is no difficulty about the cost of containers. With regard to the cost of dispensing-service, experience has shown that the soundest method of ascertaining the amount is to allocate the proportion of salaries known to be absorbed by the work of the dispensing department and a proportion of establishment-charges according to the amount of stock and counter space used for dispensing. From the total of these two amounts the cost per hour of the dispensing-service can be ascertained approximately. The writer contends that any method which depends mainly upon placing a selling price upon the ingredients is unsound. The cost of dispensing-service is a more important consideration and should be fully covered. The time involved, from the taking in of a prescription to the checking and finishing. should be considered. It has been shown that in the majority of cases the time consideration is the most important one, and the main idea of any system used for dispensing-charges should be to cover the cost of the service and materials used and to provide an adequate fee for services rendered.

Russia's Wants.—Soviet Russia is suffering from the want of medicines, medical instruments, and soap. Among the principal medicaments needed are vaseline, glycerin, lanolin, olive oil, castor oil, cacao butter, codliver oil, aspirin, phenacetin, salipyrin, quinine, bromides, salol, and iodides. Morphine and all anæsthetics are very scarce.

MEDICAMENTS FOR HUNGARY.—"Owing to the arrival from abroad of a small quantity of medicines it is now possible to distribute to each pharmacy in Hungary the following: 100 gm. conc. pure hydrochloric acid. 200 to 300 gm. tartaric acid. 3 to 4 tubes of aspirin tablets, 100 gm. of olive oil, and 50 gm. of phenacetin." So runs a recent official announcement.

Defective Dressings.—A Bombay firm of chemists and druggists obtained a contract for the supply of drugs and surgical dressings required by the forces in the field, and, as the need was urgent, facilities for an immediate analysis were lacking. However, analyses were undertaken later, and in a report issued by the Indian Munitions Board certain grave defects were found—e.g., double cyanide wool was found to contain no cyanide, and was not absorbent. Its medication was crude, and the manner in which the material had been treated was such, says the report, as might well deprive a wounded man of his chance of recovery. The Public Prosecutor took no action, and the Government merely black-listed the firm pour encourager les autres.

Associations' Winter Session.

Birmingham.—The Birmingham Pharmaceutical Association met on March 24 at the Imperial Hotel, to listen to an address given by Sir William Glyn-Jones (secretary of the Pharmaceutical Society). Mr. H. O. Lloyd occupied the chair. Sir William was prepared to discuss any subject that was before pharmacists at the present time, and was anxious to learn what provincial men thought of these problems. The controversy over the by-law showed that there was much latent power and energy in pharmacy. Other by-laws and regulations had been in process of formation at that same time, and the Society is now authorised to require that fresh entrants into pharmacy shall, after passing the Preliminary and registering, give proof of having been engaged in practical pharmacy for 4,000 hours, and shall have undergone a suitable curriculum. Sir William complimented Birmingham on the splendid arrangements which had been inaugurated at the Technical School for the training of pharmacists, that at present were being used for ex-Service men, but which, it was hoped, would assume a permanent character. Another advantage embodied in the regulations is that the Society will have some control over the institutions where the training is given. Up to last October 1,000 ex-Service men had been given grants for fees and maintenance. There are now ready to go into training next October another 1,100, and applications are still being received. For those awaiting apportionment to the schools next October, a scheme of preliminary study has been arranged, text-books will be provided free, an examination conducted, and prizes awarded by the Society. The question arises: "What is to happen to the 2,000 new men likely to come on to the register? Temporarily there will perhaps be more qualified men than pharmacy can absorb, but this will not be actually to their disadvantage, as otherwise they would have remained unqualified. The speaker eulogised the work of Mr. Lloyd on the interviewing board. With regard to the Ministry of Health, he said the possibilities of change are enormous, and bound to have great effect on the future of pharmacy. There is an increasing demand for laboratory workers to assist the medical man in the diagnosis and treatment of disease, in x-ray work, in serum-therapy, and other work, and it may be worth while to provide training and qualification for these. A committee is inquiring into the matter. If restricted by charter or otherwise, the Society is prepared to assist in the setting up of a snitable organisation, and he advised his audience to wait satisfies organisation, and he advised his addition which the result of the test case. An endeavour is being made to obtain permission for the 3d, stamp to cover patent medicines retailing up to 18, 9d, and other values in proportion, and the Birmingham Association, he said, is rendering useful assistance in this matter. The chairman then read and commented upon the circular letter of the Southport Pharmacists' Association of February 21, and the attitude of the Local Associations Executive Committee to the early formation of a registered Trade Union of Master Pharmacists. A resolution was afterwards carried: 'That this association is of opinion that, until the result of the test case is known, no action should be taken regarding the formation of a Trade Union of Master Pharmacists, and that the L.A.E. be asked to take any necessary steps immediately the decision in the test case has been obtained." Mr. E. W. Mann then informed the meeting that the Council had invited their chairman (Mr. H. O. Lloyd) to enter the lists for the forthcoming election for the Council of the Pharmaceutical Society, and proposed that the meeting pledge itself to do its utmost to secure Mr. Lloyd's election to the Council. Mr. Lloyd said that there could be no greater ambition to a pharmacist than to sit on the Council. His work in pharmaceutical politics was already onerous, but there were compensations. He was proud to have passed almost the whole of his business career in Birmingham, where he had received every help from his brother-pharmacists, and he could not refuse their invitation.

Brighton.—A meeting of the Brighton and Hove Association of Pharmacy was held on March 24 at 51 Old much fascination for women.

Steine, the President (Mr. C. G. Yates) in the chair, at which Mr. Hugo Wolff gave an address on The Need for Unity in Pharmacy. The speaker said that he appeared to be getting some sort of a reputation for "stunts." He had had three stunts in his political pharmaceutical career, and was now engaged on stunt No. 4. Mr. Wolff tarteer, and was now engaged on stant No. 4. Mr. wonterferred to the co-operative societies, which were a more formidable menace to pharmacy to-day than ever before. Whereas two years ago 250 of these societies were in working agreement with the Proprietary Articles Trade Association, now 240 had broken away. Sixteen had opened drug departments which gave no coupons, and the co-operatives found that this not only saved trouble, but produced more profits. An eye was needed to watch the ever-increasing power of the rings in the wholesale. The difference in the prices that were paid by the Government and by the retailer had amazed those who had become acquainted with both sides through war exigencies. The opening of numerous branches by the big departmental stores was more serious than generally realised. The lines on which the drug departments were usually worked were outlined by the speaker, who said that even big rivals were to some extent working in unison. Ucal had been very helpful, and would be more so, but more support was needed. The Society was now losing thousands every year on the "Pharmaceutical Journal," and was practically insolvent before the war. For the time being they were saved by the enormous number of candidates paying examination fees, but an increased member-ship fee would be inevitable. He was in favour of strict economy, yet strongly supported an increase in the salaries of Sir William Glyn-Jones and Mr. Mallinson. National Health dispensing had in rare cases helped men who had little business before the war, but had never paid for itself. He himself told Dr. Addison that, although he had a big panel business, he was coming off unless an increase of 50 per cent. were granted, whereat Dr. Addison expressed his surprise, thinking that all the agitation had been conducted by men who had little experience of actual working. With regard to the assistants' union, he spoke of the danger lest this union should fix its wages schedule on the salaries paid by the limited companies. The limited company depended for its life on its qualified assistants. The private chemist could carry on without them. If the limits fixed by the union were to be too high it would be impossible for most private chemists ever to employ a qualified assistant. It would pay better to do less business. Mr. Wolff said there was urgent need for some body that could enter into negotiation with the assistants' union, and it was the formation of some efficient body of that type that was the speaker's fourth and latest stunt. A resolution was passed afterwards in favour of a Master Pharmacist Federation. Mr. Mackie then explained the new educational requirements of the Society

Edinburgh - The Edinburgh Chemists', Assistants', and Apprentices' Association held a meeting at 36 York Place, Edinburgh, on March 24, Mr. H. W. Blair (Vice-President) in the chair. A paper on Possible Openings for Women in Pharmacy was read by Miss M. G. Boag. After outlining women's early struggle for recognition, the speaker said with so many men returning the question is raised as to what is to be done with the women. The question will right itself in a few years, though those who entered at the crowded period may suffer. There are always openings for those who are determined to qualify themselves for holding any position in the profession. The woman pharmacist is trained by a man, and does not readily get away from the man's style and ideas. The style of retail pharmacy has greatly changed since the war began, and Miss Boag indicated the changes. She spoke also on how by the advent of women the pharmacy has become an attractive place, where the healthy as well as the sick can find an interest. Women, she said, are largely the purchasers of baby foods and toilet articles. Why should not women pharmacists make and vend them? There is large scope for a maker of good creams and a blender of perfumes. When the days of novelty and study are over retail pharmacy does not seem to have much fascination for women. This causes the women

pharmacists to seek work in hospitals. On the other hand, the woman pharmacist has proved herself successful in research, and in some wholesale houses she is doing valuable analytical work. Pharmacies owned by women are not yet common, but Miss Boag proceeded to outline the essentials for success. In a few years, she continued, a new band of women will be entering pharmacy. The British Red Cross Society is granting money to women to enable them to sit for the Qualifying examination of the Pharmaceutical Society. These women will have an advantage over the present-day pharmacist in having been trained in ambulance work and sick nursing. Women pharmacists as teachers are not yet common, and there is wide scope for the energetic woman here. A discussion followed. Mr. Blair and Miss Boag were afterwards appointed to audit the accounts for the annual meeting.

Essex .- The annual meeting of the Essex County Pharmacists' Association was held on March 25, the retiring President (Mr. Rundle) presiding. The treasurer's report and balance sheet was adopted. The secretary briefly reviewed the principal matters of interest during the past year, and pointed out that the East Anglia Federation of Pharmacists had nominated Mr. S. F. Body (Southend-on-Sea) as a candidate for the Pharmaceutical Council election, and asked for support in his favour. The retiring President, in his address, commented upon his impending severance from the association, necessitated by his removal from the area. Mr. Slater and Mr. Pechey spoke with appreciation of Mr. Rundle's work, and it was unanimously resolved that Mr. Rundle be elected an honorary member of the association. The following officers were then elected for the ensuing year: President, Mr. T. L. Nicholls (Chelmsford); Vice-President, Mr. A. Catto (Ilford); Treasurer, Mr. W. Bevan (Colchester). The newly-elected President then took the chair, and it was unanimously agreed that Mr. C. Goode be elected an honorary member of the association.

Hull.—A meeting of the Hull Pharmacists' Association was held on March 24. The chair was taken by the President (Mr. J. J. Spilman), and Mr. Hines gave an address on Questions Affecting Pharmacy. These ranged from matters appertaining to apprenticeship up to the Local Associations Executive and its work. The preliminaries for a Whitley Council were arranged as a direct result of what Mr. Hines had been saying. A number of the audience thanked the speaker for his answers, and recorded their appreciation of his work as their repre-

sentative in London.

Liverpool.—At the fortnightly meeting of the Liverpool Chemists' Association (C. & D., March 27, p. 93), after the lecture by Dr. G. A. Chubb on The Public Museums and Education, the President (Mr. D. H. Evans) remarked that the Association had in an upper part of the Royal Institution a museum of materia medica which it was desirable that some member should bring up to date. Mr. J. G. Wallbridge said the Central Museum, of which he was the Director, had been of service to him, Mr. J. L. Hirst spoke appreciatively of Dr. Chibb's museum, and Mr. H. Humphreys Jones (School of Pharmacy) said he made much use of Dr. Clubb's museum. Mr. J. H. Robinson suggested that the members should make a personally conducted tour of Dr. Clubb's museum, and the President added that a visit to it might form an item of the Pharmaceutical Conference programme in July. Letters were read from four wholesale firms stating that retail dealing was interdicted.

Newport (Mon.).—The Newport (Mon.) Chemists' Association held a meeting on March 23. Resolutions in reference to the patent medicine stamp proposals of the Proprietary Articles Trade Association were passed, and will be forwarded to the Parliamentary representa-The Local Associations Executive Committee's resolution in reference to a trade union of mester pharmacists was passed unanimously. It was also resolved that steps should be taken under the Shop Hours Act for earlier closing.

Goodall, read the annual report and statement of accounts, which were unanimously adopted. The balance in hand amounted to 11l. 10s. 7d. The following officers were elected for the ensuing year; President, Alderman C. Clayton; Vice-Presidents, Mr. John Dolbear and Mr. H. H. Swift; Hon, Secretary and Treasurer, Mr. Horatio C. Goodall; the above-named officers, with Messrs. Ambrose, Loxley, Neave, and Ransom, to constitute the committee. Mr. D. R. Thomas, junr., was proposed as a new member. It was agreed to raise the subscription of membership to 7s. 6d. The report on the Tariff negotiations for 1920 was read, the members expressing themselves satisfied with the work of the Local Associations Executive Committee. A letter from the Southport Pharmacists' Association was considered, and the following resolution was passed: "That this association is of opinion that, until the result of the test case is known, no action should be taken regarding the formation of a trade union of master pharmacists, and that the L.A.E. be asked to take any necessary steps immediately the decision in the test case has been obtained." The reports of the Central Checking Bureau were read and considered satisfactory.

Salford.—The monthly meeting of the Salford Pharmaceutical Association was held on March 18, the President in the chair. There were several Manchester pharmacists present. Mr. G. F. Rowsell (Vice-President of the Pharmaceutical Society) gave an interesting address on Proprietary Articles Trade Association Matters. He said he had spoken the previous day in Manchester mainly on the professional side of pharmacy, and now he intended saying something about the other side. He dealt with the formation of the P.A.T.A., and with regard to profits Mr. Rowsell is of opinion that chemists cannot work their businesses on 20 per cent. profits on proprietaries, and he thought the minimum should be 20 per cent. on foods, 25 per cent. on patents, and $33\frac{1}{3}$ per cent. on toilet articles. He gave a full account of the imposition of the $1\frac{1}{2}$ per cent. charged by wholesalers, and hoped they would be able to settle the matter soon. The work of the Chemists' Defence Association was explained, and he said a great deal of money had lately been spent in defending cases under the Profiteering Act. He advised chemists to use one price list only in one locality. Regarding out-of-date prices on packages, he suggested tearing off the outer wrapper and scratching off the price if incorrect. As to the face-values campaign, he could not see much in it. He was more concerned with profits than face-values. He had great hopes that dispensing will be excluded from the Profiteering Act.

Sheffield .- A pleasant and instructive afternoon was spent on March 25 by the members of the Sheffield Pharmaceutical Students' Association in a visit paid to the Neepsend works of the Sheffield Gas Company. party was met at the works by the superintendent, and shown round by Mr. Halliday, his assistant. Beginning at the retort house, the students were shown the various processes in the manufacture of gas and the extraction of benzol.—A special meeting of the Association was held on March 26 at the University, with the President (Mr. I. Best) in the chair. Professor H. B. Bentley, M.A. (Oxon.), F.L.S., gave a lecture entitled *The Green Plant and Its Place in Nature*. He illustrated his points with lantern slides. Classifying the composition of a good solution suitable for an ordinary green plant, he said that the total amount of carbonic acid gas in the world's atmosphere was estimated to be 2,500,000 tons, and if the source of production ceased, the available supply would be used up by plant-life in two years. An interesting discussion followed.

Staffordshire.—A meeting of the North Staffs Chemists' Association was held on March 25, Mr. E. M. Mellor, Uttoxeter (President), in the chair. Mr. Bentley (hon, secretary) reported a deficit on-the cost of the recent chemists' dinner, and it was agreed that those who had been present at the dinner should make up this amount. Mr. Mellor then gave an account of his visit Oxford,—The annual meeting of the Oxford Chemists' Association was held on March 17, Alderman C. Clayton (President) in the chair. The hon, secretary, Mr. H. C. Wales, so the English counties were to form an independent sub-federation. The President then opened a discussion on the new "rota," which comes into operation in April, and is not popular locally. The President said that in Uttoxeter they had a very satisfactory rota, and that the Stoke rota had already been arranged by the Pharmaceutical Committee. Some members took exception to this, and thought that a meeting should have been called of the whole Association before arranging the rota. Mr. Challinor, secretary of the Pharmaceutical Committee, vigorously defended the Committee's action. They had met with very strong opposition from the doctors, and these terms were the best that they could get at present. However, cards were being printed and sent to each member on which to put down the number of prescriptions dispensed after 7.30 r.m., and the figures so obtained would be the basis of further negotiations in July. Mr. Mellor said his experience of Insurance Committees was that so long as a satisfactory service was given there would be no objection made by the Committee. Mr. Tirrell (Hauley), seeing he was the only chemist in Hauley living over the premises, said he would like to be released from the Sunday rota service. Mr. Bentley read a letter from the secretary of the Leicester Chemists Association, which was an industrial area similar to the Potteries, and there a closing time of 7 P.M. had been arranged. Mr. Mellor said that the Staffordshire Committee was endeavouring to arrange a closing hour of 7.30 P.M. throughout the county. The only objection had come from a doctor in the Potteries. Mr. Challinor read a letter from the town clerk saying that a clinic for the treatment of tropical diseases was being established in Stoke, and asking if the chemists would be willing to dispense prescriptions written there at Insurance rates. This was agreed to.

Stowmarket.—At the recent meeting of the Ipswich and Suffolk Chemists' Association (*(*), a), March 27, p. 93) the following presolution was passed: That this Association is of opinion that until the result of the test case is known, no action should be taken regarding the formation of a Trade Union of Master Pharmacists, and that the Local Associations Executive be asked to take any necessary steps immediately the decision in the test case has been obtained. The previous resolution was sent to us in error.

Scientific Progress.

Temperatures under this heading are on the Centigrade scale.

Saponin from Platycodon Grandiflorum.—This plant, a Campanulacea known to the Japanese by the name of kikyo, and to the Chinese as kilkang or kihung, is used in both countries as an astringent, vermifinge, and carminative. Oshika ("Kyoto Igaku Zasshi," p. 76-83, 1918) has succeeded in isolating from the root a saponin corresponding to the formula C₃₃H₄₈O₂₀, as a white powder, with difficulty soluble in water, more readily soluble in alkalis, and insoluble in acids, ether, and chloroform. Its hemolytic power is half that of the saponin obtained from Dioscorea Tokoro Makino.

Atractylis Gummifera, Linn., known under the name of El Haddah to the Arabs, and which is found in Algiers, Tunis, and Morocco, has been made the subject of an investigation by Wunschendorff ("Jour. Pharm. et Chim.," Novembor 16, 1919). The fresh root contains an extremely toxic principle, which is used by Arab women as a poison. On the other band, the dried root is largely consumed by the Arabs, and children masticate the resinous exudate from the base of the capitules without suffering any illeffects. The extraction of the dried root yielded the following products: A caoutchoue which was readily vulcanised: a yellowish, crystalline extract with a balsamic odour, insoluble in alcohol and in water, by which it is transformed into a resinous mass: a small amount of a brownish, bitter principle: a tannin and a sugar: inulin, and a crystalline body, probably identical with Lefranc's atractylic acid. On incineration this plant was found to yield the remarkably high amount of 29.6 per cent. of silicium oxide, 21.92 per cent, of calcium oxide, and no less than 12.4 per cent. of ferric oxide. The author proposes to continue his investigation of the substances he has isolated.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres. ENGLAND,

Eournemouth,—At the monthly meeting of the Insurance Committee, held on March 22, the balance-sheet of the Pharmaceutical Committee's administrative expenses for 1919 was received, showing a balance of 211. 11s. 2d. due to the Pharmaceutical Committee, which was paid. An estimate of the expenditure of the Pharmaceutical Committee for the current year was forwarded to the Eournemouth Fanel Committee and the Ministry of Health for approval. The sum of 541 was paid to the South-Western Joint Pricing Committee for administrative expenses. Chemists' accounts for February and March will be paid as soon as particulars are received from the Pricing Bureau. Since the last meeting 4081, 5s. 2d. has been paid in respect to the Drug Fund. With regard to chemists' shop-hours, the scheme submitted by the Pharmaceutical Committee has been approved. Where necessary, facilities for obtaining medicines up to 8 p.m. have been provided.

Denbighshire.— At a meeting of the Pharmaceutical Committee, held on March 24, it was reported that 87,184 prescriptions were dispensed during 1919, costing 2,850l. 15s. 5d., an average of 7.6d. per prescription. This shows an increase over 1918 of 8,433 prescriptions, 599l. 16s. 9d. in value, and .3d. in average cost. A resolution was carried, urging the Local Associations Executive to press upon the Minister of Health the necessity of granting an increase of 1 per cent. on the amounts due to chemists to cover errors in pricing their prescriptions.

Great Varmouth,—The Insurance Committee has agreed to the following arrangements with regard to dispensing facilities: Chemists' shops will be open daily from 9 A.M. to 7.30 P.M. except Thursdays (9 A.M. to 1.30 P.M.). Prescriptions to be dispensed after these hours must be endorsed "Urgent" by the practitioner, and an additional dispensing fee will be granted.

London.—At a meeting of the Insurance Committee, held on March 25 (C. & D. March 27, p. 94), Mr. J. Skinner occupied the chair, and the reports of the subcommittees, which included an explanatory report of the new regulations, submitted by the Medical Services Sub-Committee, were adopted.

Middlesex.—The bi-monthly meeting of the Insurance Committee was held on March 29, Sir W. S. Glyn-Jones (chairman) presiding. The Finance and General Purposes Sub-Committee reported that the scheme for the provision of a pharmaceutical service had been approved by the Minister of Health. The recommendation that Mrs. E. Hood, Messes. J. D. Cooper and W. Marlow (members of the Insurance Committee), and Messes. F. W. Andrews, H. E. Clement, and H. Wolff (pharmacists on the county panel), with Mr. W. W. Kelland, be appointed a sub-committee under the scheme. The recommendation of the Committee was adopted. The Finance Sub-Committee recommended the payment of accounts amounting to 14,035%. 108. Amongst these were the following to chemists from the Drug Fund: 6,800%, 168. 11d. on account of issue of duplicate cheques 1916-1919, supply of drugs to temporary residents, invalided soldiers, and payments to the Pharmaceutical Committee, 272l. 19s. 6d. The recommendations of the Committee were adopted. The Finance Sub-Committee also reported that they had considered an estimate of expenses from the Pharmaceutical Committee for the current year, amounting to 640l., and they recommended that it be approved subject to the amount available at the rate of $\frac{1}{2}d$. in respect of each insured person being sufficient to provide that amount. The report was adopted. The Sub-Committee further re ported that it was necessary to circularise about 1,000 insured persons in order that they might have an opportunity of exercising their option of obtaining drugs and appliances from a practitioner or from a chemist. This appliances from a practitioner or from a chemist. was also approved.

Sheffield.—A meeting of the Pharmaceutical Committee was held recently, Mr. J. T. Appleton presiding. The resignation of Mr. A. H. Culverhouse from the Committee was accepted with regret. The low price of crêpe bandages was discussed, as the price was included in the general list for dressings; it was agreed to take no further action. It was decided to request the Insurance Committee to issue a circular to each insured person in the rural areas; pointing out the right to have his medicine dispensed by a qualified chemist. It was decided also to press for the full dispensing fees on stock mixtures. Support will be given to the secretary as a candidate for the forthcoming Council election.

Smethwick,—At a meeting of the Insurance Committee held on March 30, the Medical Benefit Sub-Committee reported that the capitation fee previously paid was 20s. per thousand persons per annum. In view of the large number of cases requiring immediate dressings, and as practitioners are required to supply medicines, etc., needed by patients after the ordinary closing hours of chemists, the amount of the capitation fee should be increased to 25s. per thousand. The Ministry of Health is agreeable. This capitation fee will not include the provision of special splints or serums or vaccines. In view of the arrangement for the supply of drugs, etc., after chemists' closing hours, no provision has been made for the payment of increased dispensing fees to chemists. Notices of revised terms and conditions of service have also been issued to all chemists on the medical list. One chemist having notified his intention to withdraw from the list on March 31, the number of chemists under agreement with the Committee on April 1 will be twenty-six. A copy of the scheme which has been prepared, in consulta-tion with the Pharmaceutical Committee, for securing an adequate pharmaceutical service, is attached. A rota of chemists who will open on Wednesday evenings for dispensing has been prepared, and a copy will be circulated to each practitioner and chemist. The Pharmaceutical Committee has applied for 25l. to cover the cost of administration expenses. The estimate was approved. Statistical determination of the cost of tistical data re prescribing by practitioners during the quarter and year ended December 31 has been received from the Pricing Office, the totals being as follows:

	unarter	12 months
	ended	Dec. 31.
Cost of ingredients	£282 6s. 9d.	£1,004 0s. 3d.
,, dispensing fees	. £327 16s. 4d.	£1,225 4s. 2d.
Number of prescriptions	. 20,687	76,889
Average ingredient price pe	r	,
prescription	3.27d.	3.13d.
Average dispensing fee per pre	-	
scription	. 3,80d.	3.83d.
Average total cost per insured	1	
person	C 00 7	19.08d.
Average number of prescriptions		20.000.
73.000 0.000	0.50	2.74
per person	0.12	4,14

Hours of business for chemists are as follows: Weekday from 9 A.M. to 1 P.M. and 2 P.M. to 8 P.M., except Wednesday (9 A.M. to 1 P.M.). On Wednesday evening one chemist will be open in West Smethwick, High Street, Cape Hill, and Bearwood district from 6.30 P.M. to 8 P.M., in accordance with a rota. The rota service may be varied by the Insurance and Pharmaceutical Committees. In the event of a chemist being unable to fulfil his obligations under the rota, the Insurance Committee shall be empowered to require any other chemist in the same district to provide the required dispensing service. The person or firm required under Clause 3 to open his place of business on a Wednesday evening shall also remain open for dispensing prescriptions until 8.30 p.m. on the preceding Monday. The Finance and General Purposes Sub-Committee reported that a statement had been received from the Pricing Office showing that the total cost of the Joint Committee for the year 1919 was 1,9251. 14s. 9d., and the number of prescriptions dealt with during the year was 2,193,159. The number of Smethwick prescriptions dealt with was 76,433, and the

into the Drug Fund. Payments to chemists (December balances and January advances) amounted to 2751, 68, 9d., and January balances and February advances 2851, 58, 6d. Pharmaceutical Committee's expenses for 1919 amounted

SCOTLAND. March Drug Tariff.

The following are the atterations for March in the Drug Tariff for Scotland:

Acetanilid., $8\frac{1}{2}d$. oz.; acid. carbol., $3\frac{1}{2}d$. oz.; acid. carbol. liq., 3d. oz.; acid. ctric., 7d. oz.; acid. tartaric., 3d. oz.; adeps lane, 4d. oz.; adeps lane hydrous., $3\frac{1}{2}d$. oz.; argent. nit., 1s. 3d. oz.; Acetaninic, 8½d. oz.; acid. carbol., 5½d. oz.; acid. carbol. inq., 3d. oz.; acid. ciric., 7d. oz.; acid. cartaric., 2d. oz.; adeps lanæ, 4d. oz.; aceps lanæ hydrous., 3½d. oz.; argent. nit., 1s. 2d. oz.; argent. nit., 1s. 2d. oz.; argent. nit. indur., 1s. 3d. oz.; argent. proteinat., ½d. oz.; bals. Peru., 4s. 2½d. oz.; dec. senegæ, 2d. oz.; emp califaciens., 2d., ferri 7d., hydrarg. 1s. 0½d., picis 7d., plumbi 7d., resin 7d., and sapoms 1s. 8½d., all spread on calico. per sq. ft. (atrate of); ferri am. cit. &d. oz.; ferri et quin. cit., 3s. 2d. oz.; glycerini, 2d. oz.; glyc. fam., 7d. oz.; hydr. pin. cit., 3s. 2d. oz.; glycerini, 2d. oz.; glyc. fam., 7d. oz.; hydr. perchlor., 11d. oz.; hydr. subchlor., 1s. 4½d. oz.; hydr. am., 1s. 5d. oz.; hydr. c. creta. 5½d. oz.; oz. flav., 1s. 5d. oz.; hydr. c. creta. 5½d. oz.; oz., 1s. 5½d. oz.; iodi.e, 2s. 8½d. oz.; lin. meth. sal. co., 1s. 5½d. oz.; lin. terebinth., 5d. oz.; lin. terebinth. acet., 7d. oz.; lin. ferri peroh. fort., 1½d. oz.; lin. terebinth. acet., 7d. oz.; lin. ferri peroh. fort., 1½d. oz.; lin. formaldehyde, 4d. oz.; mag. sulpb. eff., 4d. oz.; meth. sulphonal, 7s. 4½d. oz.; naphthol, 1s. ½d. oz.; ol. cubeb., 7s. 4½d. oz.; ol. morrhuæ, 4s. 6d. imp. pint; ol. terebinth., 2½d. oz.; oz.; paraff. liq., 2d. oz.; paraff. liq., 2d. oz.; paraff. mol., 2½d. oz.; paraff. liq., 2d. oz.; paraff. liq., 2d. oz.; paraff. oz.; pilocarp nit., 11s. 2½d. dr.; pil. piezac. c. soill., 4 gr., 1s. 1½d. oz.; pil. quin. sulph., 2 gr., 8s. 5d. oz.; pil. scill. co., 8½d. oz.; podoph. resin., ts. 8d. oz.; pot. cit., 9d. oz.; pot. permang., 8½d. oz.; pot. tart. acid., 4d. oz.; quin. hydrochl., 11s. oz.; quin. hydrochl., 11s. oz.; quin. hydrochl., 11s. oz.; sulphonal, 7s. 1½d. oz.; syrup., 2½d. oz.; syr. chloral, 5½d. oz.; syr. chloral, 7s. 14½d. oz.; syr. ferri phos., 3½d. oz.; syr. hypo. co., 4d. oz.; syr. limonis, 6½d. oz.; trag. pulv., 3s. 4d. oz.; syr. senmæ, 4½d. oz.; syr. limonis, 6½d. oz.; syr. rhei, 4½d. oz.; syr. senmæ, 4½d. oz.; syr. limonis, 6½d. oz.; syr. rhei, 4½d. oz.; s

Medical Benefit Regulations.

The National Health Insurance (Medical Benefit). Regulations, 1920, dated February 23, 1920, made by the Minister of Health under the National Insurance (Health) Acts, 1911 to 1919, are now obtainable from the Stationery Office at 6d., post free $7\frac{1}{2}d$. The reference number is No. 301 Statutory Rules and Orders, 1920.

New Standards for Appliances.

The Ministry of Health remind us that the following additional appliances which have been included in the second schedule to the Medical Benefit Regulations, 1920, and it will be necessary for chemists holding contracts to have to make themselves acquainted before April 1 with particulars as to the grade or quality specified in the Tariff for these articles. The following additional list of standards and prices will be incorporated in the Drug Tariff for April 1920:

Gauze and Cotton-wool tissue.—Superficial area not less

than 1,440 square inches per lb.

In packets: 2 oz. each, 5.5d.; 4 oz. each, 10.5d.; 8 oz. each, 20d.; 1 lb. each, 36d.

Jaconet, white, 44 inches width, per yard, 45d.

Suspensory Bandages, cotton, each, 20d.

Tow, carbolised, per lb., 15d.

THE Council of the Northumberland and Durham Mineral Water Trade Protection Society has increased the prices of mineral waters. It has been decided by cost of administration is 17s. 6d. per thousand prescriptions. From January 1 to March 20 470l. 14s. was paid the retail trade to standardise the prices to the public.

Reviews of Books.

Oil Colours and Printers' Inks. By Louis E. Annés. Second edition, revised and enlarged by H. B. Stocks, $8\frac{3}{4} \times 5\frac{3}{8}$ in. Pp. 220. 10s. 6d. (London: Scott, Greenwood & Son, 8 Broadway, Ludgate, E.C. 4.)

Deals first, at great length, with the preparation and uses of linseed oil in the manufacture of oil colours; then follows a list of colours used in paints and inks, one chapter being devoted to the manufacture of lamp-black. The manufacture of paints, artists' colours, and printing inks is then dealt with. A short chapter deals with luminous paints. Recipes are given for printers' inks in the last chapter.

Osmotic Pressure. By Alexander Findlay, D.Sc. Second edition. $8\frac{3}{4} \times 5\frac{5}{6}$ in. Pp. 116. 6s. (London: Longmans, Green & Co., 39 Paternoster Row, E.C. 4.)

This is one of the monographs on inorganic and physical hemistry edited by Dr. Findlay for the use of advanced students of chemistry. The object of the series is to supply accounts of the recent investigation in physical chemistry in a more extended manner than can be obtained from general text-books of chemistry. The theory and methods of determining osmotic pressure are dealt with plenty of references being given to original papers, so that the student can obtain fuller information on any point should he so desire.

A Systematic Course of Qualitative Chemical Analysis of Inorganic and Organic Substances. By H. W. SCHIMPF. Third edition. 9 × 53 in. Pp. 187. 7s. (London: Chapman & Hall, 11 Henrietta Street, Covent Garden, W.C. 2.)

Dr. Schimpf is Professor of Analytical Chemistry in the Brooklyn College of Pharmacy, and he has prepared this book especially for students in pharmacy. After a brief ontline of general considerations, the identification-tests for bases and acids, and separation charts are given, chemical equations being used to express the reactions which take place in the tests. A feature of the book is the number of analytical charts, while the last five pages are devoted to the preparation of reagents.

Incompatibilities in Prescriptions. By Edsel A. Ruddi-Man. Ph.M., M.D. Fourth edition. $8\frac{1}{8} \times 5\frac{5}{8}$ in. Pp. 317. 9s. 6d. (London: Chapman & Hall, Henrietta Street, Covent Garden, W.C. 2.)

Part I., consisting of 117 pages, deals with the incompatibilities of individual drugs and chemicals, the list beginning with acacia and ending with zinc salts. In Part II. are printed 450 prescriptions separately criticised in a series of numbered monographs. Then follow tables of solid reactions, solubilities, and a pricing scheme (according to American practice). The index is so arranged that the different ingredients in an incompatible prescription can be referred to. Dr. Ruddinan is Professor of Pharmacy and Materia Medica in the Department of Pharmacy at Vanderbilt University.

Visual Optics and Sight Testing. By LIONEL LAURANCE. Second edition. 9 × 6 in. Pp. 420 + index. 21s. (London: The School of Optics, Ltd., 2 Guilford Place, London, W.C. 1.)

The first edition was published eight years ago, and rapidly took up its position as the foremost treatise on sight-testing. A test of its utility is that one of the foremost medical journals actually wrote of it: "Ophthalmologists will find in the book a useful and concise summary of the mathematical principles of visual optics. Indeed, in this part of the subject many interesting points are dealt with which are not commonly mentioned in ophthalmic text-books." We find that in the present edition every page has been carefully revised, with the result that the volume has been greatly improved as a text-book. It is now used by most students of of tics and sight testing.

Chemical Reagents: Their Uses, Methods of Testing for Purity and Commercial Farieties. By C. Krauch. Second English edition, revised and enlarged by H. B. Stocks. 8\frac{5}{8} \times 5\frac{1}{4} in. Pp. 369. 17s. 6d. (London: Scott, Greenwood & Son, 8 Broadway, Ludgate, E.C. 4.)

The various chemical reagents are given in alphabetical order. The general treatment is to give the chemical name, symbols, molecular weight, characters, and solubility. Then follow tests for impurities, method of estimation, uses, and commercial varieties. References are freely given to the "Journal of the Chemical Society," the "Journal of the Society of Chemical Industry," and the "Chemical News," which we take to be the work of Mr. Stocks, as German books seldom give credit for chemical work done in the United Kingdom. This feature makes the book useful to English-speaking nations. An appendix deals with the preparation of reagents.

Business Changes.

ROCK & Breakspear, chemists, Maidenhead, have removed to 42 High Street.

BENZOATES, LTD., and V. C. NORTH & Co., manufacturing chemists, 76 Finsbury Pavement, London, E.C. 2, have had their telephone number changed to Clerkenwell 2142.

Mr. C. A. Charpentier, manufacturers' agent, has removed from 184 Aldersgate Street, London, E.C. 1, to 75 Great Titchfield Street, W. 1. (Telephone, Museum 6412.)

MR. E. A. HOLLOWAY, chemist and druggist, Southendon-Sea, has remodelled his dental surgery at "Hampton Water," Thorpe Bay, and has installed a compressed-air outfit and other up-to-date apparatus.

J. C. Eno, Ltd., "Fruit Salt" Works, Pomeroy Street, London, S.E. 14, have removed their registered office to Blackfriars House, Ludgate Circus, E.C. 4. The office of the works director remains at 25 Pomeroy Street.

BISHOP & Co., tin-container manufacturers, 63 and 64 Bartholomew Close, London, E.C.1, have amalgamated with Armstrong & Co., and have removed to 252 Goswell Road, E.C.1, where the business will be continued as Bishop, Armstrong & Co.

ZIEGELE, SCHNEIDT & Co., drug merchants, have removed to 3 Love Lane, Eastcheap, London, E.C. 3. Mr. Otto Ziegele (sole partner of the firm) has authorised Mr. A. Ziegele and Mr. E. Collins, the latter who has been with him for many years, to sign for h's firm by procuration.

Mr. Hugo Lorenz, 7 and 8 Idol Lane, London, E.C., notifies that Mr. Robert Weiss, who has been associated with him for nearly thirty years, is leaving in order to establish himself in business at 24 Minories, E.C. The business started by Mr. Lorenz in 1880 will be continued as heretofore.

Negotiations to form a company to purchase the assets and title of John Ismay & Sons, manufacturing chemists, Newcastle-on-Tyne (C. d. D., March 27, p. 92), having fallen through, the stock will be sold by auction, as previously proposed. It is announced that the price paid for the premises is 50,000/.

THOMAS MORSON & SON, LTD., fine-chemical manufacturers, announce that owing to the increase in their business, they have found it necessary to close their London warehouse (Elm Street), and transfer to more commodious and specially built warehouses at their Ponders End works. All communications should be sent, as previously, to their head offices at 47 Gray's Inn Road, London, W.C. 1. The new telephone number is Museum 5616 (four lines).

The formation of a new company under the name of Castle, Huskisson, Ltd., announced in our issue of March 20 (p. 52), is the result of the acquirement by The Castle Tablet Co., Ltd., 106 Barnsbury Road, London, N. 1, of the business of H. O. Huskisson & Co., Moon Street, Islington, which, it may be remembered, is one of the historic wholesale businesses of London. The two businesses will, in the near future, be carried on at the Moon Street premises.

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration. See "The Chemist and Druggist Diary" 1920, p. 308.

(From "The Trade-marks Journal," February 4, 1920.) "Lypthene"; for medicinal chemicals (3). By Reynolds & Branson, Ltd., 13 Briggate, Leeds. 397,407. (Asso-

Branson, Ltd., 13 Briggate, Leeds. 397,407. (Associated.)

"DULSOLS BRAND MEDICATED CONFECTIONERY"; for medicated confectionery (3). By Boots Pure Drug Co., Ltd., 37 Station Street, Nottingham. 397,409.

"LUCKY BADGE," "LUCKY SEAL," with Swastika device; for medicinal chemicals (3), goods (47) and for perfumery, etc. (48). "LUCKY CHARM," with Swastika device; for medicinal chemicals (3), goods (47), perfumery, etc. (48), and for soap (50). By W. Gossage & Sons, Ltd., Widnes, Lanes. 397,775/6/7/9/80/81/83/84/85/86. (Associated.)

"Anthemor Brand a Pharmaceutical Product," "Spassmalgin Brand a Pharmaceutical Product," "Mesarca Brand a Pharmaceutical Product," "Mesarca Brand a Pharmaceutical Product," "Blastease Brand a Pharmaceutical Product," "Blastease Brand a Pharmaceutical Product, 7 and 8 Idol Lane, London, E.C. 3. 397,985/6/7/8.

"Atmos"; for goods (8). By A. Cox, "Harlech," Warwick, Road, Olton, near Birmingham. 390,854. (Associated.)

"Stoco"; for lenses, etc. (8), spectacle frames (13 and 14), spectacle cases, etc. (37 and 50). By the Standard Optical Co., 160 Lyceum Street, Geneva U.S.A. 392,726/5/4/3/2. (Associated.)

"Metrovick," devices including letters "M V" and "M V E C" ("E C" disclaimed); for all goods (8). By Metropolitan-Vickers Electrical Co., Ltd., 2 Norfolk Street, Strand, London, W.C. 2. 396,425/903.

"Maxifier"; for scientific instruments, etc. (8). By H. P. Rees, 8 Grange Park, Ealing, London, W. 5. 598,407.

"Robt. M. Capon," faesimile signature; for all goods (11). By R. M. Capon, 49a Rodney Street, Liverpool. 396,227.

"Le Brasseur" on triangular-shaped device; for all goods (11). By R. M. Capon, 49a Rodney Street, Liverpool. 396,227.

"Le Brasseur" on triangular-shaped device; for all goods (11). By R. de Brasseur Surgical Manufacturing Co., Ltd., 90 Worcester Street, Birmingham. 369,684. (Associated.)

(Associated.)
"SALCANI"; for

MCANI"; for surgical instruments, etc. (11). By A. de St. Dalmas & Co., 40 Belgrave Gate, Leicester. 396,855.

(Associated.)

"Davies, Coleman & Co., Ltd., 40 Holborn Viaduct, London, E.C. 1. 396,627. (Associated.)

"Verna," "Savex," and "Novex"; for photographic papers (39). By Kosmos Photographics, Ltd., Balfour House, Finsbury Pavement, Loudon, E.C. 2. 398,499/500/1

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C L" on circular device; for all goods (42). By Lovell & Christmas, Ltd., 11 West Smithfield, London, E.C. 1. 390,695. (Associated.)
E G A"; for food substances (42). By Fabrique de Produits Chimiques Flora Dubendorf, Switzerland. 395,239. (Associated.)

"Pussyroot"; for all goods (42) and (44). By T. Oliver, "Carn Brea," Garrads Road, Streatham, London, S.W. 16. 396,363/4. (Associated.)
"Avo"; for edible fats (42). By C. Thomas & Bros., Ltd., Broad Plain Soap Works, Bristol. 396,636. (Asso-

Broad Plain Soap Works, Bristol. 396,636. (Associated.)

"LAONA"; for goods (42). By Old Culabar, Ltd., 27 Chapel Chambers, North, Liverpool. 397,258.

"Keenora" and star-shaped device: for all goods (42). By Morris & Jones, Ltd., 82 Whitechapel, Liverpool. 397,449. (Associated.)

"Maricom"; for all goods (42). By Marittima Commerciale Società Anonima Italiana, 3, Via Roma-Via D'Aflitto, Naples, Italy. 397,758.

"Golmedia": for food substances (42). By H. F. Flux, 25 Brunswick Street, Hove, Sussex. 398,200.

"Neemul"; for all goods (47). By H. M. Wells, 11 Haymarket, London, S.W. 1. 397,955.

"Vici"; for all goods (47). By G. Blake, 36 Camomile Street, London, E.C. 3. 398,221.

"Erioline Defies Time," with circular device of sun, pyramids, etc.; for face eream and powder (48). By Lintine

mids, etc.; for face cream and powder (48). By Lintine
Manufachiring Co., 206 Pentonville Road, London,
N. 1. 393,287. (Associated.)

"ORLANDO"; for hair pomade and toilet lotion (48). By
E. R. Barlow, 40b Harriet Street, Treeynon, Aberdare.

395,629. " Nicolo ": "Nicolo"; for goods (48). By G. E. Mignon, 82 Bushwood, Wanstead, Essex. 397,259.
"Jeanola"; for all goods (48). By Fisher & Bolland, 2 South John Street, Liverpool. 397,313.

REVE DE JEUNESSE," "Cœur DE FEMME," "BERCEUSE D'AMOUR," and "BONAMI"; for perfumery, etc. (48). By Arcco, Ltd., 11 Southampton Row, London, W.C. 1.

"SHEN"; for perfumery, etc. (48). By R. Blackie, 168 Tower Bridge Road, London, S.E. 1, 398,062. "GLISTINA"; for polishes (59). By Dixon & Co., 131 Holderness Road, Hull. 396,201.

Device of head of horned animal; for hair-combs, etc. (50).

'By the ''Ibex'' Manufacturing Co., 39 Cheapside, London, E.C. 2, 396,218.

"Orayo"; for polishes (50). By E. W. and M. W. Patrick and S. C. Brown, Lower Paddock Road, Watford, Horte 506,74z.

Herts. 396,743.

From "The Trade-marks Journal," February 18, 1920.)

"Ico": for chemicals (1), medicinal chemicals (3), and for perfumery, etc. (48). "Evo" and "Duba"; for ehemi-Go": for chemicals (1), medicinal chemicals (3), and for perfumery, etc. (48). "Evo" and "Duba"; for eltemicals (1 and 2), medicinal chemicals (3), food substances (42), and for perfumery, etc. (48). "Aco"; for chemicals (2), food substances (42), and for perfumery, etc. (48). By Fabrique de Produits Chimiques Flora, Dubendorf, Switzerland. 392,244/6/9: 392,256/7/8/60/1; 392,262/3; 391,187; 392,265/6; 392,251/4/5. (Associated.)
TI-Sul"; for all goods (1). By P. Spence & Sons, Ltd., Holland Street, Miles Platting, Manchester. 395,775.
Over the Top": for all goods (1). By Bleecker Export and Trading Co., Inc., 22 Albany Street, New York, U.S.A. 398,265.

U.S.A. 398,263.

Bervar"; for chemicals (1). By L. Berger & Sons, Ltd., 201 Morning Lane, Homerton, London, E. 9. 398,663. (Associated.)

(Associated.)

"Klenfor"; for all goods (2) and (48). By Parkers Preparations, Ltd., 1 Gongh Street, London, E. 14. (Associated.)

"Sanozon"; for chemicals (2). By C. A. Langham, 1 King's Court, Hove, Sussex. 398,078.

"Forhan's" on oblong label device with facsimile signature "R. J. Forhan, D.D.S." ("Forhan's" disclaimed); for a pyorrhear remedy (3). By Forhan (°c., 200 Sixth Avenue, New York, U.S.A. 394,648.

"CASIBA BRAND A MEDICINAL PREPARATION"; for a medicine (3). By T. Christy & Co., 442, 201d Swan Lane, Upper

(3). By T. Christy & Co., 4-12 Old Swan Lane, Upper Thames Street, London, E.C. 4. 396, 391.

"Jrx-Zil." Brand skin cintment; for skin cintment (3). By Cepticura Skin Remedies Co., 40 Coulton Street. Barrow-in-Furness. 397,121.

CATHEROL BRAND A SURREIGAL EMBROCATION"; for medicinal chemicals (3). By Boots Pure Drug Co., Ltd., 37 Station

Street, Nottingham. 397,408.

Street, Nortingham. 397,408.

Medallion device, including basket of roses; for medicinal chemicals (5). By Garnett Pickles Preparations Co., Ltd., 35 Cromwell House, High Holborn, London, W.C. 1. 393,599.

"Sels de Potasse" and picture of stork for Alsatian salts of potash (4). By Bureau Provisoire de Vente de la Potasse d'Alsace, 9 Boulevard du Marechal Petain, Mulhouse, Haut Rhin, France. 395,608.

"FILTERCEL"; for all goods (4). By Celite Products Co., 1135 Van Nays Building, Los Angeles, California.

394,892.

394,892.
Chain device with name "Brotherron & Co. Limited", for dyes, etc. (4). By Brotherton & Co., Ltd., Infirmary Street, Leeds. 397,291. (Associated.)
"ELARCO," with picture of girl's head ("Elarco" disclaimed); for surgical rubber goods (11). By the London Rubber Co., 183 Aldersgato Street, London, E.C. 1.

397,073.

T. L. LONDON," with picture of jay; for all goods (11).
By J. Tompkins, Ltd., 386 City Road, London, E.C. 1.

397,880. (Associated.)
AURORASCOPE": for surgical instruments, etc. (11). By
Minna H. Dutch, 8 Berkeley Street, London, W. L. 398,043.

Minia H. Dutch, 6 Berkery Street, Borden, 1878, 398,043.

KING RICHARD"; for all goods (42). By Richards & Co., London, Ltd., Peninsular House, Monument Street, London, E.C. 3. 395,445.

LACROMA"; for milk and its preparations (42). By G. Bradbeer & Co., 79 Victoria Street, Bristol. 396,932.

ALESLA," "GYRTONA," and "Dodona"; for all goods (42). By Reid & Glasgow, 4 India Buildings, Water Street, Liverpool. 398,022/3/4.

ENO," "Frut Salt," etc., with grape vine device; for a dry beverage preparation (42). By J. C. Eno, Ltd., 25 Pomerov Street, New Cross Road, London, S.E. 14. 398,379. (Associated.)

SAVON BONTE" and facsimile signature ("Savon Bonte" disclaimed); for soap (47). "Bounty" and facsimile signature ("Bounty" disclaimed); for all goods (47). By Robin & Houston, Ltd., Wright Stre.t, Renfrew, 397,186/7. (Associated.)

Trade Report.

42 Cannon Street, E.C. 4, March 31.

JUDGING by the attendance at market centres, the Easter holiday influence has made itself felt earlier than usual this year, and for the first time many firms in the City are closing on Saturday. The downward tendency noted in Mincing Lane produce last week still continues in the absence of important business, while the possibility of cheaper freights is a factor to be reckoned with shortly, in the fixing of prices on c.i.f. terms. The fresh depreciation in the French and Italian exchanges makes business exceedingly difficult with those countries. The Dutch transport strike appears to have entered an acute phase, and shipments to and from Holland are practically at a standstill. Perhaps one bright spot is that the transport position at home has improved, and there is less difficulty in effecting shipments to foreign ports. There is also tess dock congestion, as witnessed by the fact that on March 24 there were no vessels waiting in the Thames to enter dock. Among chemicals, the few outstanding changes comprise a further advance in citric acid, and to a less extent in tartaric acid. Phenacetin is very scarce and dearer. Potash bromide is easier. Cocaine is firmer. Methyl sulphonal, salol, phenazone, and calcium lactate are selling at easier rates. Hydrochloric and sulphuric acids have advanced. Changes in drugs and spices are mostly downwards, these including Japanese camphor, senega, ava ursi, Florentine orris, calumba, castor oil, cloves, and pepper. Nux vonuca and opium are higher. Linseed oil and sova oil, turpentine, and shellac are cheaper,

Higher	Firmer	Easier	Lower
Amidol Camphor oll Citrie acid Heliotropin Hydrochloric acid Nux vomica Opium Phemacetin Phemacetin Edwhydaeolic addehyde Soda sulf hide Sulphuric acid	Cocaine Cod liver oil Sar-aparilla Tartaric acid	Allumen Calcium lactate Canary-seed Caraway-seed Caraway-seed Cassia lignea Clove oil Clove oil Ginger (Japan) Hen-yolk Honey Mint oil (Jp.) Orris (Flor.) Paraformalde- byde Senega Seda ash Soda canstie Uva misi Vanilin	Anise oil, star Calumba Camphor (Jp. ret., slabs) Castor oil Coconut oil Farina Fenngreck seed Lead _compounds Linseed oil Methyl sulphonal Pepper Phenazone Salol Shellae soya oil Theobromine (pure) Turpentine

Cablegram.

New York, March 31.—Business is quiet Bismuth salts have been advanced; subnitrate is now \$2.65, and subgallate \$2.85. Short buchn is higher at \$3.75. Cartagena ipecacuanha is lower at \$3.20, and balsam toln is also cheaper at \$1.45. Copaiba has been reduced to 62½c. per lb., and antipyrin to \$7.00 per lb.

Albumen is easier, prime Chinese egg offering at 6s. per lb. on the spot and afleat, while April-June shipment is quoted at 6s. 3d. per lb. c.i.f.

AMIDOL has been advanced to 13s, per lb, in one direction in tins, and for bottles 14s, is wanted.

Anise is steady at 87s, per cwt, for Russian and 95s. for Spanish.

ANTIMONY .- The market in regulus seems dull, but the scarcity of crude is unrelieved, and the value of the latter is 601, to 621, per ton, but this quotation is quite nominal.

Arsenic .- Although the demand is rather dight, current supplies are easily absorbed at prices ranging from 691.

BISMUTH SALTS.—Makers' list prices are as under: Carbonate, 16s. 6d.; citrate, 17s.; nitrate, 10s. 6d.; oxide, 18s.; salicylate, 14s. 6d.; subchlor., 16s. 3d.; subgallate, 16s. 6d.; and subnit., 14s. 9d. per lb. net. Not less than

1-cwt. lots are subject to a reduction of 3d. per lb., and

Brownes.—Potash crystals of German make have been selling at from 3s. 9d. to 3s. 10d. per lb. on the spot, which prices are almost equivalent to those asked by Germany on c.i.f. terms. The offers of parcels from the so-called neutral countries tend to keep this market easy for the present. Soda and ammon, are unchanged at last week's quotations.

CADMIUM.—A moderate inquiry is met with at about

6s. 6d. per lb., but some sellers ask 6s. 9d.

CALCIUM LACTATE is slightly easier, B.P. offering at from 6s. 6d. to 7s. per lb. on the spot, according to

CALUMBA .- Arrivals are still taking place on a free scale, and prices are tending easier at 65s. to 67s. 6d. per cwt. for good bold bright, and 55s. for fair sorts.

CAMPHOR (CRUDE).—Sales of Chinese have been made at easier rates, which are not reported.

CAMPHOR (REFINED).—Japanese refined 21-lb. slabs are

about 6d. per lb. cheaper, with spot sales at 17s, per lb. Canary-seep is easier at 170s, per quarter for ordinary Morocco and 180s, to 185s, for fair to good. Spanish is quoted 250s. to 275s. for good to fine bold.

CASCARA SAGRADA is quiet and unaltered at from 105s. to 107s. 6a. per cwt. on the spot.

CASSIA LIGNEA is easier, selected whole offering at 92s. 6d. and broken at 70s. on the spot.

Castor Oil is 10% per ton lower, Hull make of pharmaceutical quality offering at 10% per ton, first pressing at 10%, seconds at 99% net, barrels included, delivery ex mills Hull.

CINCHONA.—At anction 205 packages East Indian offered, and part sold, including druggists' mossy silver broken quill at 3s. $1\frac{1}{2}d$. Succirubra stem chips at 2s. 3d. to 2s. $3\frac{3}{2}d$., and root at 2s. Of South American, 79 bales offered, and 19 sold at 2s. 1d. for damaged flat Calisaya, 1s. $5\frac{1}{2}d$, for quill, and 1s. 4d. for chips.

CITRIC ACID continues in good demand at again higher prices. During the week from 6s. $10\frac{1}{2}d$. to 7s. has been paid, and 7s. 3d. for single packages.

CLOVES continue dull and easier, fair Zanzibar offering at 2s. 6d. per lb. on the spot.

COCAINE is firmer for spot delivery and in good demand, the value of hydrochloride being 40s, per oz.

COCHINEAL is steady, silver grain and dark grain selling at 3°. 9d. per lb.

Con-Liver Oil.—The strike in Norway continues to interfere with shipments. For new Norwegian oil actually on the spot from 575s, to 380s, per barrel is quoted, while to arrive 390s. c.i.f. is wanted.

AMESUND, March 17. During last week the weather improved, and the catch was therefore somewhat better. Up to March 13 the catch the output of cod-liver oil, and the quantity of livers for natural oils amounted to:

(halfiffy of livers for lattital of statistics of the formal of statistics of the formal field of the fiver against 5,508,000 , 7,017 , , 1,118 , , in 1919 5,102,000 , 5,631 , , , 1,133 , , in 1918 9,777,000 , 15,644 , , , 2,200 , , in 1917 19,421,0.0 , 24,238 , , , , 2,900 , , in 1916

on the corresponding date. Market is quiet but firm. Berger, March 23.—The total result of all our fisheries up to date amounts to 12.76 million of fish, with a production of 17,409 burnels of crude oil, against 9 million of fish, with a production of 10,450 barrels of crude oil in 1919. In 1918 the catch at the corresponding date was 8.76 million fish and 7,447 barrels of crude oil, and in 1917 the corresponding figures were 14.70 million cod and 18,329 barrels of crude oil. During the last two weeks a satisfactory increase has taken place in the production of oil. Nevertheless, the market has become firmer during the last few days, and prices for crude oil have advanced. There are quite a number of buyers in the market, and for the time being manufacturers of oil are holding on to their production, anticipating higher prices later on. The export has been at a standstill for more than one month on account of dock strikes, which we, however, expect to be over this week in strikes, which we, however, expect to be over this week in view of the good prospects for a settlement. The condition of the liver is very good this year, yielding up to 60 per cent. of oil.

COPPER SULPHATE.—The export demand is only moderate, but makers do not seem disposed to take orders at less than 50l. per ton for casks f.o.b. Liverpool, less 5 per cent. The sharp recovery in the price of metallic copper is having a sentimental effect.

CREAM OF TARTAR remains firm at 310s. per cwt. on

the spot for 98 per cent, powder.

Egg Products are dull of sale. Chinese liquid henyolk is easier at 130s, per cwt. on the spot. For April-June shipment sellers quote 120s, c.i.f. Dried whole on the spot is 1s. 9d., liquid whole is 127s. 6d., and dried yolk is 1s. 4d. per lb.

Farina is lower, Japanese No. 1 offering at 34s. per cwt. on the spot, and for April-June shipment 30s. 6a. to 31s. per cwt. c.i.f. has been paid. Sellers of sweet

quote 32s. on the spot.

FENUGREEK-SEED is lower at 14s. to 14s. 6d. per cwt. for fair Morocco, according to quantity.

GENTIAN is steady at 70s. per cwt. on the spot.

GINGER.—Japanese is rather easier, with spot sellers at 64s. per cwt.

GLUCOSE is in fair demand, American guaranteed waterwhite selling at from 64s. to 65s. per cwt., duty paid. GUM ACACIA.—At auction 286 bags Persian offered and

66 sold, comprising pale to reddish blocky Shiraz at 80s. to 82s. 6d. per cwt., subject.

HEXAMINE is very firm at 17s, per lb, on the spot. The extreme scarcity of wood alcohol in U.S.A. has led

to a further advance by makers on that side.

Honey is quiet and easier on the spot, with fair stocks, but prices at primary sources in several instances are above the London parity. Pale-set Cuban can be had at 95s., and ordinary at 75s. Australian is 70s. to 72s. 6d. per cwt. for pale set. White set New Zealand is unchanged at 110s.; San Domingo is 85s.; Californian is 105s. for pale set, and 95s. for mixed colours; Honolulu in cases has been sold at 85s.

HYDROCHLORIC ACID.—Higher prices will be charged from April 1. For the commercial (30 per cent. HCl), s.g. 1.150 to 1.155, from 107 to 121. per ton, according to seller, naked ex works London, is the quotation.

LAVENDER FLOWERS are dearer for Spanish at 85s. per cwt. It is stated that the heavy demand is largely responsible for the scarcity of lavender and spike oils.

LEAD COMPOUNDS.—There was a further downward revision in lead compounds just at the close of last week, amounting to 1l. 15s. per ton for dry white-lead and white-lead in oil to 66l. 5s. and 79l, respectively, f.o.b. for export. Red-lead and litharge were lowered by 2l. 5s. per ton, both these being quoted 63l. 5s. for over 5 tons and 64l. 15s. for lots under 5 tons for the home trade and export, delivered and f.o.b. respectively. There will now be a halt in the fall, while prices may possibly be advanced a little if the recent rally in the price of pig-lead makes-further progress. The demand all round continues much in excess of the supply.

Linseed Oil.—The tendency is still downward inclined, buyers distrusting the market, while the price has dropped to well under 100% per ton early this week for May-August delivery. The margin between spot and forward positions is really no more than could be expected, although it is pretty substantial, and amply indicates the advent of enlarged shipments of seed from the two main sources of

supply.

Liquorice Juice.—For shipment from Sicily, five-kilo. blocks are offered at 250s. per cwt., and 1-oz., 2-oz., and 3-oz. sticks, according to brand, at from 216s. to

342s. per cwt. net, c.i.f. London.

LIQUORICE-ROOT.—For shipment from Sicily, matural is quoted at 40s. 8d.; ditto, in five-kilo, bundles, at 107s. 6d.; decorpicated cut No. 1 at 133s., and decorticated lengths at 128s. per cwt. gross for net, f.o.b. Catania.

Manna.—For shipment from Sicily, large flake is offering at 325s., small at 243s., and Gerace sort at 216s.

per cwt, e. and f. London.

MENTHOL is steady, with spot sales of Kobayashi-Suzuki at from 69s. to 70s. per lb. Supplies are not too plentiful on the spot.

METHYL SULPHONAL is a further 2s. 6d. per lb. lower, importers offering at from 45s, to 46s. per lb., according to quantity.

Nux Vomica is dearer, with sales of Bombay up to 60s, per ewt. c.i.f. There are sellers of limited quantities on the spot at 62s. 6d. Crop shortage in India appears to be responsible for the advance.

OLIVE OIL continues scarce, the value of Spanish edible being from 21s. to 22s. 3d. per gal., and French edible at from 21s. to 24s. 6d. Provence oil is said to be of

poor quality this season.

Optim.—The position in the interior of Turkey appears to have become acute so far as regards the arrivals of opium at primary sources, and all communications appear to have been cut. One of the largest shippers has withdrawn all offers, and a Constantinople exporter quotes $11\frac{3}{4}$ per cent. at 19s. per lb. c.i.f., or a further 9d. advance, making 1s. 6d. in a fortnight. On the spot (London) a steady business has been done at 20s. per lb. for druggists' quality, and in view of the higher prices asked at primary sources sellers are inclined to hold aloof.

SMYRNA, March 13.—The sales this week on our market amount to 22 cases at from piastres 860 to piastres 875 for low grades, and piastres 950 for rich manufacturing qualities, equal 15s. 6d. to 19s. per lb. c.i.f. The exchange is piastres 412 per pound sterling for cheque on London and \$0.88 per one Turkish paper pound. The arrivals are 1,506 cases, aginst 200 at same date last year.

Orris.—Florentine is easier, with fair pale sorts offering at 92s. 6d., and good Verona at 87s. 6d. per cwt.

PANCREATIN is quoted at from 13s. to 14s, per lb. as to quantity.

PARAFORMALDEHYDE is easier at from 7s. 6d. to 8s.

per lb. on the spot, as to quantity.

Pepper.—Black Singapore is lower, fair on the spot offering at $8\frac{1}{2}d$. per lb.; to arrive, the sales include April-June and May-July shipment, at $9\frac{1}{4}d$. to 9d. per lb. c.i.f. Lampong is also cheaper at $8\frac{3}{4}d$. per lb., February-April shipment offering at 9d. c.i.f. Tellicherry is $11\frac{1}{2}d$. and Aleppy $9\frac{1}{4}d$., both spot. White Muntok has been reduced to 18. $3\frac{3}{4}d$. spot, and for February-April shipment 18. $3\frac{1}{4}d$. c.i.f. has been paid. Singapore is 18. 4d. spot, and April-June shipment 18. $3\frac{1}{2}d$. c.i.f. d.w.

PHENACETIN is very scarce on the spot, holders asking the advanced rates of from 19s. 6d. to 20s. per lb. American makers report their production as being sold out until the autumn, and only second hand parcels appear

to be offered

PHENAZONE is temporarily easier in view of the arrival of several consignments from the Continent, and 32s. 6d. to 33s. 6d. per lb. will buy.

QUICKSILVER.—The market so far has held up pretty firmly at 26l. 10s. to 27l. per bottle, while there is not much to be got; but if the report is correct that an arrival of about 5,000 bottles is already practically at hand, this may easily induce some freer competition on the part of the leading importers, and thus lead to a downward revision in prices from the present "record" level. According to official returns, the United States output for the third quarter of last year was only 5,207 bottles, made up thus: California. 3,903 bottles; Texas, 1,209 bottles; Nevada. 71 bottles; and Oregon, 24 bottles. The whole of the 1919 production is estimated at 20,000 bottles, which is therefore well under the rough estimate given in our issue of March 20 as representing the present rate of the annual production.

SAFFRON is very firm at from 80s. to 85s. per lb., the

latter price being for finest Valencia.

Salol is from 6d. to 9d. per lb. cheaper, crystals offering at from 6s. to 6s. 6d. per lb. according to quantity.

Sarsaparilla is tending dearer, with holders of Lima-

Jamaica asking the higher rate of 3s. 3d. for good. Genuine grey Jamaica can be had at 4s., and Native red Jamaica at 2s. 9d.

SENEGA is offered at 12s. 6d. per lb. for good bright on the spot, *being easier.

SHELLAC.—The spot market for usual standard TN Orange quality has declined a further 20s, per cwt. to 760s., but other descriptions show little change at 990s. for fine Orange, 1,000s, for R.L.1 920s, for fine second Orange, 610s, to 620s, for AC cakey, and 600s, for GAL. Futures have been irregular but lower, the sales including

May delivery at from 670s, to 660s., and August at from 570s, to 540s. To arrive TN for February-March shipment is quoted at 630s, and April-May at 560s, c.i.f.

Soda Salts.—For resale parcels of Bicarbonate from 15/. 10s. to 15/. 15s. per ton is being asked, and even more in some directions. Glauber salt is dearer at 131. to 14/, per ton for commercial. Salt-cake containing 95 to 97 per cent, is also dearer at from 201, to 221, f.o.b. in bulk. There are few sellers of Coustic, and for 70 to 72 per cent., resale parcels, 41s. per cwt. is quoted, which is lower. Bichromate is quoted at from 1s. 11d. to 2s. per lb, on the spot. Soda ash is weaker on the spot, being quoted at 29s, per cwt. for 58 per cent, light alkali. Sodium sulphate is extremely scarce on the spot, and for 60 to 62 per cent, solid concentrated 48s, per cwt. has been paid this week.

Soya BEAN OIL is much lower, the sales including March-April and April-June shipment at 931, per ton c.i.f. in

SQUILL. White of first quality is offered at 30s., and second quality at 20s, per cwt, gross for net, f.o.b. Catania.

Sulphuric Acid. A further rise in the price is announced to come into effect ou April 1. When the previous increase was notified (C. & D., January 10, p. 72), we intimated that the advance in the cost of freightage would probably result in a further rise. We understand that the advance is ascribed to the heavy increase in shipping freights. This results from the fact that a large proportion of shipping engaged in bringing pyrites has been diverted from the Mediterranean by order of the Government. It is anticipated that the present increase in the price of sulphuric acid is temporary only, and that a decline can be expected so soon as the amount of available shipping is increased. The following quotations are per long tan, naked ex works: Commercial (arsenical), 77 per cent. (140° Tw.), 100s. 6d., with an increase or decrease of 7d. for each complete degree; de-arsenicated (non arsenical), 77 per cent. (140° Tw.), 122s. 6d., with an increase or decrease of 8d. for each complete degree; guaranteed suitable for food purposes, 127s, 6d., with an increase or decrease of 8d. Rectified 168° Tw., 1.84 s.g. (93 to 94 per cent.); commercial (arsenical), 71. 18s. 9d.; de-arsenicated (non-arsenical), 91, 6s. 9d.

TARTARIC ACID has still a hardening tendency at from 48. 3d. to 48. 43d. per lb. for powder, and for crystals up to 4s, 9d, is quoted. Business in foreign for April-May shipment has been done at 4s, 3d, per lb.

Theobroming.—The pure alkaloid is cheaper, importers

offering at 55% to 57s, 6d. per 1b.
Turpentine is about 7s, per ewt, lower, American closing at 21s, per ewt, on the spot.
Tur 1 rest is easier, fair leaves offering at 70s, per

est, on the spot. VANILLA.-At auction 185 tims Seychelies offered, and

all sold with a good demand at fully previous prices, including fair to good firsts, 7 to 8 in., at 13s. 6d. to 15s. 6 to 7 in., at 11s. 6d. to 13s.; 3½ to 6 in., at 10s. to 12s.; firsts, leanish, 3½ to 6 in., 9s. 6d.; foxy, 5 to 6 in., 9s. 3d.; good to fine split at 9s. to 12s.; and brown and split at 8s. to 9s. 6d. per lb.

Vanillin is easier at 80s, per lb, on the spot.

Essential Oils Market.

The Holdday Moon is very much in evidence this week, and there are comparatively few movements of importance to record. There is no fresh development in regard to Sicilian oils, and spot parcels of orange have been diligently sought without encouraging results. In some quarters the opinion is expressed that a weakening of the prices of lemon and bergamot is probable in the near future. Japanese water-white camplior and Spanish orange are inclined to be higher; white camplior and Spanish drauge are method to be figure; accurang as firmer; sweet femile is easier, and star anise is lower. Among the synthetics, heliotropin, ionone, and rhodinol are higher. Commarin is steady.

Anise Oh. Star, is cheaper, with sales of "Red Ship" brand at 5s. 4d, per lb, on the spot.

Bergamor. It is probable that the limit has now been all the same in record to prices for 38 to 39 la

reached at the source in regard to prices for 38 to 39 l.a., and some holders are reported to be inclined to give way. Prices are still firm on the spot at from 59s. to 45s. per lb. Camphor. For Japanese water-white 170s. to 175s. per

cwt. is now quoted, and the brown is steady at 150s. Dealers report that the extra cost entailed in repacking into drums is well worth incurring, as the original cases arrive in so bad a condition that any further transport is almost certain to result in leakage, and consequently considerable loss.

Cananga is firmer at from 27s, to 30s, per lb., the latter

price being for prime Java.

CINNAMON-BARK is quoted on the spot at 180s. per lb. for the highest grade, and a product stated to be of B.P. quality is obtainable at 100s. Leaf oil is steady at 1s. 04d.

CLOVE is slightly easier, finest English distilled offering at 21s, per lb.

FENNEL (SWEET) is easier on the spot at 13s, per lb., and bitter at 5s.

Geranium.—Algerian and Bourbon are steady on the spot at 40s. per lb., and 38s. 9d. c.i.f. Loudon.

GINGERGEASS is quiet on the spot at 18s, to 19s, per lb, for the "insoluble,"

LAVENDER is dull at from 40s, to 55s, per lb., according to ester content and seller. Spanish lavender affoat with an ester value of 25 to 30 is offered at 43s, per lb. landed.

LEMON is quiet at from 10s, 3d, to 10s, 9d, per lb, on the spot, and to arrive from 11s, to 11s, 6d, c,i.f. is quoted.

LEMONGRASS is firm at from 1s. 4d. to 1s. 6d. per oz.,

according to quantity.

MINT.—Japanese dementholised continues quiet, with a small business passing at 13s. 3d. to 13s. per lb. on the spot for Kobayashi-Suzuki.

ORANGE. - As pointed out last week, no weakening in prices of the Sicilian product can be anticipated owing to the apparent exhaustion of stocks. West Indian is offered at 40s, per lb. Small parcels may be found at slightly less. Spanish orange is again dearer at 29s, per lb., and 35s, for redistilled. Algerian of good quality can be had at 35s.

Ofto of Rose. - Fair supplies of finest Bulgarian "own distillation" are now obtainable on the spot from 65s. per English oz. upwards. Anatolian pure, French, and current brands Bulgarian products can be obtained at 45. French, and to 55s. per oz.

PATCHOULI is very firm at last week's prices (85s. to 86s. p. r lb.), but it is stated that 90s. per lb. has been paid this

week.

Pennyroyal is in good demand at 8s. 6d. per lb.

PEPPERMINT. American tin oil can be had on the spot at

ROSEMARY is firmer at 7s, on the spot for Spanish. The crop now being produced promises to be of good quality, but as we have previously stated, it will be short.

Among the Synthetics, prices continue to be very irregular; here and there, owing to competition, holders are inclined to accept offers which are under the market quotation. Aubepine has changed hands at 45s. per lb. this week, but spot holders are asking somewhat higher prices. Benzyl Benzoate is scarce on the spot, and a good demand is reported at 15s. to 17s. per lb. Cinnamic Alcohol is obtainable at 100s. to 110s. Citronellol is quoted at 90s. for high-grade quality. Coumarin is in large supply, but there appear to be no lower offers than those quoted last week—i.e., 32s. 6d. to 40s. per lb. Geraniol ex Java eithonella is quoted at 22s. per lb. in one direction. Heliotrophi is firmer on the spot at 37s. to 38s. per lb. for American, but supplies are very short. Ionone: There is said to be practically none on the spot. Two weeks ago business was done at 90s. per lb. for the alpha product. The price now quoted is 40s. on the spot for 100 per cent., and a small quantity is available. β-ionone is quoted at 125s. spot. Soapmakers quality is low 90s. on the spot. Myrsk Ambrette is difficult to find at from 320s. to 350s, per lb. A substitute will be offered when the analyst's report is received at 200s. per lb. Xylol is steady at 45s. to 47s. per lb. Nebolin of fair quality can be obtained at 12s. per lb. on the spot. Phenyl Acchiol: ("crtain parcels have been offered which, on analysis, were found to be worthless, and were consequently rejected. Spot holders offer at from 80s. to 100s. per lb. according to quality. Rhodinol is very scarce, but 75s. Among the Synthetics, prices continue to be very irregular: rejected. Spot holders offer at from 80s. to 100s. per lb., according to quality. Rhoding is very scarce, but 75s. per lb. is asked in one direction, while the general market quotation ranges higher.

German Market Report.

The market report of a leading Hamburg wholesale drughouse, issued towards the end of March, begins on a more hopeful note than usual. This is attributable to the joy experienced on being able to report, for the first time, an

improvement in the German exchange, due to the promised loan to Germany of two million pounds, and the consequent effect on the exchange, that delicate recorder of all events. However, it is still an open question whether this loan will materialise, and whether, in the event of negotiations falling through, the rate of exchange will then again deteriorate. Coincident with this improvement in the exchange, but independent of the latter, the drug market has assumed a saner aspect. It appears that the ever-growing mortgaging of accumulated stocks is to be restricted, and this limitation is already becoming apparent. The war and its attendant consequences have afforded many opportunities to the honest and striving business man so long as he confined his business and his purchases to meet the requirements of his clients. the war, and the revolution which followed upon However, the war, and the revolution which followed upon it, brought in its train the undesirable concomitant that a number of new elements, some of them very youthful persons, engaged in the drug trade with very little capital, and often with a very slight acquaintance, both practical and theoretical, of the trade, and in the majority of cases working with borrowed funds. The approved old bases of business were thrown overboard. Therefore the above measure shows rather plainly that the future belongs only to the honest and hard-working member of the trade, who, being averse to wildcat speculations, confines himself to his own efforts, and has a sure market for his purchases. This has led to the application of a brake to a number of articles, particularly those which were mortgaged, and this action has resulted in a partial decline in prices. The general tendency of the drug market to-day may be summed up in the statement that articles which have enjoyed the special attention of speculators are likely to show considerable variations in price, while those articles of which there is a real shortage will maintain their firm position. The prices real shortage will maintain their firm position. The prices of those goods of which we are lacking, and which must be imported from abroad, will depend entirely upon the rate of exchange, and will fall or riso in conjunction with the latter. While this report was in the press new events were succeeding each other with great rapidity, and it is impossible to foresee what results these will have. During the first stage the rate of exchange deteriorated to such an extent that all exchange transactions had to be completely extent that all exchange transactions had to be completely suspended. Some articles again exhibit a firm tendency. Prices below are quoted in marks per kilo.:

ACID ACETIC (80 per cent.) has recently fetched m.16, the demand for it being very brisk. The demand exceeds the supply, so that in view of the coming period of greater consumption higher prices must be reckoned with.

ACID ACETYLSALICYLIC.—The price has slightly declined ACID BENZOIC.—Supplies are scarce, and quoted at m.165.
ACID CITRIC.—A regulation now prohibits its importation and exportation, so that the German market is now dependent upon the stocks available in the country. been followed by a rise in price to m.185.

ACID SALICYLIC.—Stocks are very low, and it now fetches

ACID TARTARIC continues to advance in price, and quoted at m.130 for granular and crystals and m.132 for It is now more difficult to obtain fresh supplies; the stocks have diminished, while the demand is increasing in view of the approaching warmer weather and the resulting larger consumption.

AMMONIUM BROWIDE has fetched m.125, and is in request

of foreign buyers.

Antifebrin.—Repeated advances in price by the manufachave raised quotations, although stocks are very plentiful.

ANTIPYRIN and ANTIPYRIN SUBSTITUTE are not extensively offered.

BENZALDEHYDE, almost free from chlorine, is supplied sporadically by manufacturers, so that the price has advanced to m.250 in view of increasing demand.
BISMUTH SUBSTIFATE has advanced to m.550, bismuth sub-

gallate to m.500, and both are offered only in small amounts. CAFFEINE (PURE) is in great demand by forcign buyers,

and only small amounts are now obtainable at m.1,100.

CAMPHOR (REFINED) has been unobtainable for years. Can be supplied to clients at m.650, although there are few

COUMARIN approximates the price quoted abroad of m.1,000. England and Japan have evinced great interest in this substance.

CREAM OF TARTAR (99/100 per cent.), in conjunction with the price for tartario acid, has advanced to m.85, but in comparison with the former its price is still behindhand.

GLYCERIN (white 28°).—The demand exceeds the offers; it

is quoted at m.24.

HELIOTROPIN is firm at m.1,250,

HYDROQUINONE is obtainable at m.475.

Not being plentiful. Potassium iodide is quoted at m.900,

sodium iodide m.900, iodine resublimed m.1,000, iodoform m.900

Lycopodium, genuine, is sought for in vain, as there is no communication with Russia.

Menthol is obtainable only in broken bulk at m.2,500.

PHENACETIN.—Although manufacturers have again ad vanced their prices, in consequence of the above mentioned measure, its price has declined, but this is also due to the fact that owing to its very high price it scarcely enters into consideration for export.

Phenolphthalein is scarce at m.420.
Potassium Bromde is one of the articles which has been extensively mortgaged, as mentioned above, and has de-clined considerably from its highest quotation of m.120. Foreign countries continue to be large purchasers.

Potassium Permanganate is in demand by home as well as foreign buyers, at m.150, although supplies are fairly

Potassium Sulphoguaiacolate has become scarcer at m. 475.

Ph.Germ.V. quality is quoted at m.800; technical quality is obtainable at m.400.

Sodium Benzoate.—Diminishing stocks, coupled with a brisk demand, have increased the price to m.150.

SODIUM BROMIDE has been sold to foreign buyers at m.125. SODIUM SALICYLATE is scarce at m.125,

Vanillin (100 per cent. chemically pure) is one of the articles most in demand, while there are not sufficient fresh supplies to cope with the demand.

China and Opium.

"The Times" publishes a scathing indictment of the opium and morphine traffic in China. "Official records show," says their Peking correspondent, "that during the first ten months of 1919 there were imported into the United first ten months of 1919 there were imported into the United States 250 tons of erude opium, which manufactured in the ratio of seven to one represents 35 tons of morphine and other noxious drugs. Statistics prove that one ton of morphine should suffice for the annual medicinal needs of all the Americas from Alaska to Patagonia, and it is notorious that practically the whole of the opium entering America, reaches China, in one form or another. The America reaches China in one form or another. The American action does not affect the trans-American morphine trade between Great Britain and the Far East. Direct export of morphine to China is forbidden except when it is certified as for medicinal purposes, but there are no restrictions on export to America, with the result that huge quantities are passed through that country in bond, shipped to Japan, and there transhipped without landing for Tsingtao, Dalny, and Korea. From the first two mentioned places it is smuggled directly into the interior, and from Korea by a regular system of motorboats it is clandestinely distributed along the northern coasts of China. One ton of morphine is equivalent to 32,000,000 injections, so it may be imagined what havoe is being done in this unfortunate country by the traffic. Although import into China has been forbidden by treaty since 1916, it is the fact that Indian opium continues to pour into China by lumdreds of tons. It is exported from India to Malaya, the Dutch Indies, and Macao in quantities vastly in excess of local requirements, and it is re-exported to Korea, Japan, and Japanese ports in China, and from there smnggled into the interior of China. Sir Francis Aglen, Inspector General of Chinese Maritimo when it is certified as for medicinal purposes, but there Francis Aglen, Inspector-General of Chinese Maritimo Customs, speaking recently at an international anti-opium meeting in Peking, stated that the Customs, during 1919, had seized 21 tons of opium and 4 cwt, of morphine, heroin, etc., figures which represented 'only an infinitesimal fraction of what is actually coming its than the control of the cont otc., figures which represented 'only an infinitesimal fraction of what is actually coming into the country.' Thus, not only are the morphine regulations evaded with eomplete success, but the whole British policy in regard to the Indian opium trade is being stultified. China is backsliding in the matter of internal cultivation, and the demand of the Chinese for foreign opium and its derivatives is insistent. No regulations will keep either opium or morphine out of China so long as these commedities exist elsewhere in the world. Responsibility for a situation which is resulting in the wholesale process of debauching an unsophisticated Oriental people clearly lies in two places—upon the Japanese, who do nearly all the smuggling, and an unsophisticated Oriental people clearly lies in two places—upon the Japanese, who do nearly all the smuggling, and upon us, the British, who permit a growth of opium in India vastly in excess of the local consumption, and who allow our own nationals to manufacture morphine and other pernicious drugs in a quantity thousands and thousands percent, beyond the legitimate medical requirements of the whole world. It is a dirty trade all through, and for our own prestige, if not for conscience' sake, we ought, without further circumlocution, strangle it at the root by stopping production in India.'



Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

A Slight Fire.

SIR. We have read with no little surprise the account in the C, d: D. March 27, p. 67, of a fire at our premises. No large structure was involved, the loss of stock was triffing, no damage was done by smoke, and, inasmuch as the fire was promptly put out by our own men without the use of water, there was no damage by water either. We shall be glad if you will allow us the opportun'ty to remove an impression, wholly erroneous, that we had a serious fire. Yours faithfully,

For The British Drug Houses, Ltd., Charles Alex. Hill, Managing Director.

Dental Chemists' Meeting.

SIR,-Recently letters have appeared in the C. & D. which, if not answered, may lead to a misunder-tanding. I wish to defin tely point out at once that the Chemists Dental Society exists as a protective society, one of its purposes being to insist upon justice being meted out to its members, and not for any favour, as some persons seem to imply who are not cognisant of the actual facts. Needless to say, we are fighting the battle of all dental chemists, and yet a large number have not thought it prudent to support the Chemists' Deutal Society financially or otherwise, though its membership fee covers a substantial insurance policy, etc., and its officers receive no renumeration. There will be an open meeting of dental chemists, whether members of the Chemists' Dental Society or otherwise, held at the Chemists' Exhibition premises on April 14, at 7.30 p.m., immediately following a meeting of the Chemists' Dental Society, which is strictly Yours truly confined to its members only.

BENSON HARRIES.

84 Commercial Road, Newport, Mon.

Highland Dyes.

Sir, Your interesting note on "Highland Dyes" (C. d. D., March 27, p. 76) contains an erroneous impression which which sion, which, unfortunately, occurs in all publications on the subject. How it originated I cannot say, but, when the subject. How it originated I cannot say, but, when investigating the medicinal side of the subject, I came across the dye side also. The characteristic odour of "Harris tweed" is not due to the peat being used as a dye, but to "peat reck." This odour is impregnated into the wool by its being stored about the rafters of the dwellings, where the "reck" is almost constantly present. It would be very difficult to convey this peculiar odour to It would be very difficult to convey this personal tweed made in the South because the "fixing agent" is completely washed ont of the wool by alkalis. The "dyes" you give are only for wool, and, while the mordant "animonia" is technically correct, it may produce a smile when it is known that it is obtained from a sunk tub at the back of the byre. The subject is a large one, not easily treated in a short letter. I hope, however, I have made myself clear, and, if the subject is one that your readers are interested in, I would endeayour to give them a much fuller description at the end of the summer from a series of notes I have already made. Yours faithfully,

Kingussie.

ALEXR. MCCUTCHEON.

Importation Charges.

SIR,—I should like to call the attention of your readers who are importers from France to the unreasonably high charges for carriage, etc., levied on the goods when they arrive here. In years gone by the French carriers used to supply a "Specification of Charges" along with the goods, which, however 'fell into disuse during the war. The modus operandi in general use now is to present the goods

with a note demanding a certain fixed sum to be paid before the carman condescends to hand them over—a sort of "Money or your life" kind of thing. Even a worm will turn sometimes, and I have taken the worm's part lately and, to my surprise, have found that these profiteers disgorged some portion of the intended swag. For the benefit of others who may have cause to complain, I give them one or two points d'appui whence to make their attacks. When the invoice is received for a consignment of goods, insist on getting from the carriers a "Specifica-tion of Charges." If goods are tendered before it arrives, pay the charges under protest and worry the carriers until it arrives. You will probably find there an item called "Sender's Disbursements" or "Paid On," which the carrier paid out at the French or English port. This item is originally charged to the carriers in French money, and usually exchanged at the pre-war rate of exchange or one very near it. All you have to do is to ask for a sight of the original charge note, and you will find that you get a refundment of a considerable portion of the amount. The original note of charges, however, never comes. Yours faithfully,

ANTI-USURE.

The Outlook in the Drug Trade.

Sir,—From various letters in the C. & D., rather surreptitious utterances of members of the Council of the Pharmaceutical Society, etc., it would appear that in a short time pharmacy will be very much overcrowded. I think I am right in saying that the Pharmaceutical Society is generally supposed to look after the interests of pharmacy, and I take it that all the students who have obtained grants have obtained them with the knowledge of the Pharmaceutical Society. From this it naturally strikes the ordinary individual that there has surely been some considerable lack of foresight on the part of the Council in passing grants for students who cannot hope to find employment in their proper sphere at a salary commensurate with their attainments. Surely it cannot be that the Society does not see beyond the 121, 12s, examination fee. I see it also stated that there are a very great many students waiting to enter the colleges for next Winter Session. Now, sir, would it not surely be better to advise these people to try their luck in some other business or profession offering more scope. I am, of course, strongly in favour of giving every possible assistance to ex-Service men; but is it either to their advantage or the good of harmacy generally that they should be asked to work hard, relieved of their examination fee, and then be unable to get a post, or perhaps be offered 1301, per year, when crossing-sweepers can earn 41. or 51. weekly? I would like to draw the attention of qualified employés generally to what I think is a serious omission-namely. in not having a trade union of their own, to include the qualified managers and qualified assistants only; the unions at present formed include everyone, and are merely a waste of time as far as the qualified are concerned. "Jay Mack," in his letter a few weeks ago, said there were scores of fine openings for men wanting businesses, and in many cases the capital would be provided by the seller. I think it would be very interesting to hear where these golden opportunities are to be found.

Yours faithfully, YORKIST (27/3)

Homeopathy.

Sir.—The letter written by "Cynic" prompts me again to write on homeopathy. I quite agree with him that one is apt to be cynical when he sees one system of medicine prescribing huge doses for the cure of an ailment, and for the same ailment (apparently) the homeeopath will give a million millionth of a grain or very much less. But the proof of the pudding is in the eating, and, with your kind permission, I will give one or two examples of homoeopathic prescribing and cures in my own practice. Last January I was consulted about a boy. own practice. Last January I was consumed age thirteen, the ailment being incontinence of fæces. In age thirteen, the ailment being incontinence of fæces. In this other respects he was quite normal and healthy. had been going on daily since last August, and orthodox treatment with scoldings and punishments had failed to effect any improvement. The boy, on cross-examination, stated that until the deed was done he was absolutely unconscious that anything had happened; had neither the slightest warning nor sensation of any kind. This particular symptom made me prescribe aloes 30—i.e., a strength or dilution of aloes I part in one followed by sixty noughts. This was at the beginning of last January. Last month I had the gratification of receiving a letter which stated the boy was quite well, and was keeping so. What cured the patient, and would he have got well without any dosing at all? Again, I was consulted about a skin case that had been under treatment for seven years, part of that time as an in-patient and then an out-patient of a well-known skin hospital in the North of England. I prescribed graphites (blacklead). The patient was quite well in less than a month, and has remained, so. That is over three years ago. Why these small doses should act is not known (I have an explanation that satisfies me, at all events), but the fact remains that they do act, whatever may be the reason. If "Cynic" or any other chemist would like to write to me (through the Editor), I shall be most happy to answer any query to the best of my ability.

"Medicus." (30/3.)

SIR,—As I am responsible for the letters which have recently appeared over the signature of "Leath & Ross" on the above controversy, I feel I may take some small portion of the credit for having interested your correspondent "Cynic" (among many others) in the matter, and that being so, let me urge upon him the advisability of further pursuing the study of the subject, which it is certain he would find both interesting and instructive. "Cynic" is somewhat incorrect in stating that on the one side we have the claim "that ailments are cured best by infinitesimal doses," because the infinitesimal dose is not part of the fundamental principle of homoeopathy "Similia similibus curantur," although it naturally follows that the dose must only be sufficient to have the curative, and not large enough to produce the pathogenic effect. I can recall many instances where the late Dr. Compton Burnett prescribed 10-minim doses of oleum succini non rect. (black oil of amber) three times a day. together with a dose of thuja, 200th dilution, night and morning, and he was a homeopath out and out. Again, "Cynic" appears to err in stating that with regard to purgatives "the cause and effect are obvious"; the cause and primary effect may be, but the ultimate effect—no. Are not some of the most obstinate and irresponsive cases which medical men are called upon to treat those which are due to a more or less prolonged habit of taking strong purgatives—thus brendering natural functions quite in active? I think the answer, as they say in the House of Commons, is in the affirmative.

Yours faithfully, SEPTIMUS WALGATE.

How to Increase Turnover.

SIR,—The pharmacist, in common with every other business man, is anxious to increase his turnover. Every person in business ought to realise that if he is not advancing he must be receding—there can be no stationary condition. Does the pharmacist make the most of his opportunities? I venture to think not. One good source of income—a chance to pick up easy money—is neglected by fully 90 per cent. of private pharmacists. Let me show you just what I mean. In this country many millions of pounds are spent yearly in national advertising, and some of the best brains in the country are engaged day by day, and year by year, in conceiving and carrying out plans for furthering the sale of the commodities in which they are interested. A very large proportion of these nationally advertised goods are stocked by almost every pharmacist in business. You would be surprised to know just what that proportion was. order to get some idea study the posters on the heardings, and the advertisements in the weekly papers and monthly magazines, and you will be astonished at the number of things that are being advertised, stock of which you hold. A few days ago I was going up to town by bus, there were ten advertisements displayed in that bus, one was a text, one was for a picture-show, and

the other eight were for articles to be found in my The stores, including the large West-End businesses, have not been slow to take advantage of this advertising, and are always out to get as much as they can of this business, that is so easy to obtain. The proprietors of these advertised articles are quick to realise that the co-operation of the retailer is necessary to complete their plans, and they will in almost every case give special terms for a display, and these terms, together with the greatly increased sales that are made, are a good source of profit. I do not advocate the display of every advertised article; some of them, I mean those that do not give the retailer a living profit, I would not think of showing. The goods of one of the worst offenders, who allow the pharmacist no profit, I do not stock at all, and if individual pharmacists would only get together, through their local associations, and pledge themselves not to sell any of this firm's goods until such times as they come into line with the other firms who have protected their articles there would be some chance of obtaining a living profit to the retailer. No national advertisor can afford to neglect the retailer; he has a place, and a most important place too, in all the former's selling plans. The retailer is the point the former's selling plans. The retailer is the point of contact between the manufacturer and the purchaser. The whole of the advertising campaign rests on that point of contact. Let me illustrate this: a person reads an advertisement and has experienced a desire to possess the article; he goes to a shop to buy; in mine cases out of ten he goes to the shop that he is accustomed to. In the first case, we will assume that the article is one that has earned the goodwill of the vendor, the sale is made and the customer goes away. If the article has real merit he will no doubt become a regular user of the line, and a potential advertiser, for having once found a good thing ourselves we take a strange delight in recommending it to others. But, on the other hand, if the article is one that has not the goodwill of the seller it is no difficult matter, in the majority of cases, for the pharmacist to introduce another article. make a sale, and the whole machinery of the advertiser falls to the ground. Anyone who has had any experience of advertising knows what a deal of work has to be done before the potential customer is persuaded to enter a shop to make the purchase, and all this work can be nullified by a few words spoken by the seller, and no class of tradesman can do this better than a pharmacist, who, by virtue of his calling, has the confidence of his customers. Now, to return to the original purpose of this letter, having separated the sheep from the goats, we ought, in our own interests, to look after the sheep. Many pharmacists place all advertised articles on the same plane, and give them all the cold shoulder; to my mind this is a great mistake. Well advertised Well advertised articles, that can be bought on profitable window-show terms, should be bought and displayed. Some time ago I noticed a new line being well advertised, this advertising was continuous, and forceable, yet I did not receive a single inquiry for the line. I was sure that it had merit, and ought to sell. I found the trade terms good, about 33 per cent. profit, buying in 5l. lots. I had a 5l. lot, showed it, and disposed of the whole lot in less than a week, reordered and moved the second lot inside of ten days. Many customers said to me, "I see that you have got — try a bottle." I've seen it advertised, so I will See the point of contact? they had read about the article, the advertising had created that desired to purchase, but it was not until they actually saw the goods being displayed that the consummation of the whole advertising took place. This leads me to the "text" advertising took place. This leads me to the "text" of my "sermon," and that is, link up your pharmacy with nationally-advertised lines that show you a decent profit, make your window the point of contact, you will reap the benefit of increased sales, this is, as I said, at the outset easy money, and if your pharmacy is clean and bright, your assistants tactful and courteous, and your service good there will be no fear as to the progress of your business, for if people come to you for the advertised lines they will not pass you by when they want other goods. Yours truly Ealing, W. THOMAS MARNS.

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

Preparing Crystals.

F. D. S. (202-14) writes in regard to an inquiry in the C. d. D., February 28, p. 108, that Lowson's "Preparations and Exercises in Inorganic Chemistry" (Methuen, 2s. 6d.) gives good information as to the manufacture of crystals.

Demand for x-Ray Operators.

II. B. (26.3) writes: You state (C. & D., March 27, p. 104) "The demand for x-ray operators is small," etc. I know an institution wishing to obtain the services of a lady certificated in x-ray work, and, although training centres have been written to and several ladies who have recently passed the examination have been communicated with, they appear to have obtained employment so readily as not to give us in the North a chance of obtaining their services. I should be glad to hear of a fully trained lady seeking an engagement.

Appreciations.

We should all agree on essentials—The Chemist and Druggist is one of the essentials for the successful carrying-on of a pharmacist's business. The amount of the subscription is indirectly repaid many times with untold interest in the course of one's career.—W. E. G. (149-3.)

I enclose subscription for another year of The Chemist and Druggist. I appreciate the bold stand you always make in the interest of the trade generally and your fearless constructive criticism of the destructive policy of those who have sold our birthright. How much of our qualification is left? An examination is the door to every profession, and the door of every profession is open to those who can pass. It does not matter what knowledge one possesses or what is his efficiency in any branch—one must have the hall-mark of an examination before he can be admitted into any profession. That rule should be strictly enforced at all times in justice to those who have spent time and money in qualifying. What would the legal profession think if all the clerks enforced a demand to be admitted to the rolls? The dignity of our trade is gone, and in a few years it will have been reduced to a level with the street hawker.—

II. J. W. (20–10.)

Legal Queries.

J. J. P. (11 3). The first vendor of a medicine liable to medicine stamp duty is the person who is required by law to affix the stamp. Formamint is liable to stamp duty, so the authorities told us in 1916 (C. & D., November 25, 1916, p. 52). The word "Formamint" is, however, public property in the United Kingdom.

M. M. (25 3) is tenant of a combined shop and house at a rent of 22l. a year, under an agreement which will terminate on November 1 next. The premises were sold in June last, and the purchaser has given "M. M." notice to quit on November 1. Is "M. M." protected, by the Increase of Rent and Mortgage Interest (Restrictions) Act, from being ejected upon the date mentioned? [The Acts do not apply to business premises, and consequently "M. M." can be compelled to vacate the shop at the expiration of his tenancy. On the other hand, the Court would probably not require him to leave the dwellinghouse pontion of the premises unless alternative accommodation is available.]

Hillsome (22, 3) is shortly starting in business on his own account. Part of the furniture at his house belongs to his wife, and he wishes to make over to her the rest of the furniture in order that it may not be taken in the event of his becoming bankrupt; how can this be effected? ["Hillsome" should execute a bill of sale on the furniture in favour of his wife and have the bill of sale duly registered. The furniture belonging to "Hillsome" will, however, still be available for his creditors if he becomes bankrupt within two years after the date of the bill of sale, or even if he becomes bankrupt subsequently within

ten years after that date, unless he can prove that he was solvent, without the aid of the furniture, when he executed the bill of sale.]

I. C. (21/3), who is a bachelor, asks what is his liability to income-tax in these circumstances: On November 5, 1914, he was appointed to a position at a weekly salary of 3/. 158. He left this situation in July 1915 and he joined up on August 4, 1915. He served until August 1919, when he was demobilised, and he then took over his present business on the understanding that he allows his predecessor 100/, per annum from the profits. His net income for the year is likely to be from 300/, to 330/. and, referring to our replies in the C. & D., March 20, he wishes to know what is his position as an ex-Service man. [Although in strict law he cannot claim it, the practice of the authorities is to allow anyone in the position of "B. I. C." to be assessed on the average of his income for the past three years. As this will in all probability be less than 300%, he will be entitled to an abatement of 160%, and a further allowance for any premium of insurance he may pay not exceeding 7 per cent. of the sum for which he is insured, or one-sixth of his income. He will then be liable for income-tax on the balance of his income at the rate of 9d, in the £. If his income taken on the average of the three years is, over 300l. and less than 500l., he is entitled to an abatement of 120l., and tax is chargeable on the balance at 1s. 3d. in the £. As the 100l. payable to the predecessor is an annuity coming out of the business, income-tax ought to be deducted from it by "B. I. C." before it is paid

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

Anon. (16/3).—Water-glass.—We presume that the directions for the use of water-glass refer to a certain dilution according to Twaddell's hydrometer. The relation between this instrument and specific gravity is expressed by the following formula: 0.5n + 100, n being the degree indicated by the hydrometer.

 $P.\ T.\ (29/3).$ —Kummerfeld's Lotion.—The following is a good formula :

Aqua Cosmetica Kummerfeldi.
Camphor, in fine powder ... 1
Glycerin 5
Precipitated sulphnr ... 12
Add gradually, with trituration:
Rose-water ... 40
Then add:
Rose-water ... 42

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," April 14, 1870.

Cod-liver Cream.

"Emulsio" writes: The following is worthy of insertion in your journal as an admirable recipe for a preparation that is somewhat extensively vended in several parts of the country under the alluring title of "Cod-Liver Cream." A quarter of an ounce of elect gum tragacanth steeped in sixteen ounces of cold water for about forty-eight hours, during which time it should be stirred occasionally, yields a fine gelatinous mucilage which, when mixed in any preportion with cod-liver oil and simply shaken with it, permanently diffuses the oil into particles, which in vain strugglo for reunion. It is usual to mix the mucilage and coil in equal parts, and it is further only required to sweeten: and add as a preservative and savourer to each ounce of the mixture one drachm of spirits of wine, to which has been added a drop of essence of lemon, the same quantity of essence of almonds and a trifle of oil of cassia. This is the mélange completed, and of so agreeable a flavour is the result that to most palates it would be found to acquit itself ereditably in comparison with an average custard.

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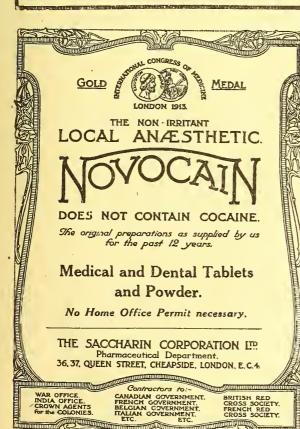
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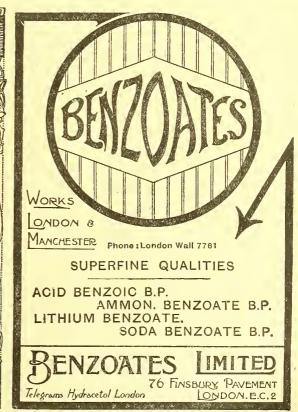
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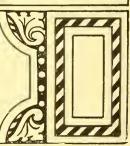
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Boxes of 2×50 ,	"		14/-	11/-
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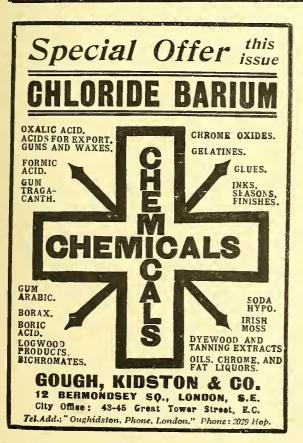
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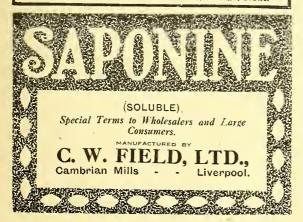
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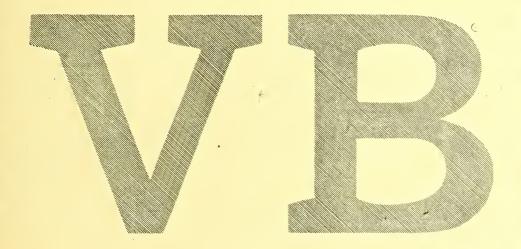
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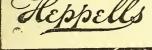
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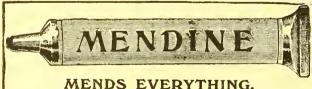
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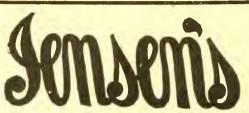
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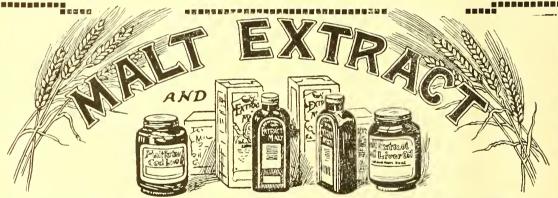
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HOPE, Ltd. "Perryope, Nitshiff." Perryope, Led, London.

NITSHILL, near GLASGOW.

London Office: 1 LEADENHALL STREET, E.C.3.





Millions of glasses used daily by workers all over the Empire

Please allow us to Sample and Quote-

Citrate Magnesia Health Salt Salines

Liver Salt **Blood Salt**

Sulph. & Sarsap. Salt Lemonade

Crystals, &c.

NOTTINGHAM

Extract of Malt and Cod Liver Oil IN BULK, JARS OR TINS. Prices on application. THE BRITISH DIAMALT CO. BISHOP'S STORTFORD. Proprietors {H. A. & D. D. TAYLOR H. D. & C. T. TAYLOR



The Finest Quality Aerated Waters are made only with the Finest Quality **ESSENCES**

OAK **KOBERTS**

Soluble Essences are of the finest quality and being extremely concentrated are most economical

Lemon Orange Ginger Raspberry

Strawberry

Ginger Ale Stone Ginger (Cloudy

Clear Ginger Beer Kola Champagne Lime Juice and Soda

Pineapple Lemon Squash. Vanilla

A. Boake, Roberts & Co. L. Stratford, London. Els.

Neave's Food

New Revised Prices from March 20, 1920

FIXED PRICES—FIXED PROFITS.

In consequence of the recent advance in the price of raw material which affects Manufacturers of Cereal Foods, also the present high price of tin, together with increased carriage, wages, etc., we are reluctantly compelled to revise the terms and selling prices of our 1/6 and 3/9 sizes of NEAVE'S FOOD. On and after MARCH 22 the following prices will come into operation—

1/6 size NEAVE'S FOOD advanced 2/- per dozen net, making the maximum and minimum retail selling price 1/8 per tin 3/9 size NEAVE'S FOOD advanced 5/- per dozen net, making the maximum and minimum retail selling price 4/2 per tin.

ORDERS WILL BE EXECUTED AT PRICES CURRENT AT DATE OF DISPATCH.

For the present our 6d. packets of NEAVE'S FOOD, our 2/6 tins of MILK FOOD, and our 2/- and 6/- tins of HEALTH DIET remain unaltered.

OBTAINABLE FROM ALL WHOLESALERS.

JOSIAH R. NEAVE & CO., FORDINGBRIDGE

Any 1-lb. "war-time packets" still in stock will be exchanged by the Manufacturers for the new tin packing on payment of difference in price.

Dr. Allinson's Food Preparations

FOR ALL AGES AND CONDITIONS OF HEALTH AT FIRM AND PROTECTED PRICES.

Food for Babies, Prepared Barley, N. F. Cocoa, Biscuits, Wholemeal, &c.

See Trade Merk "T. R. Allinson" on all our goods—None Genuine Without, SPECIAL NOTICE.

We issue a list of WHOLESALE HOUSES who keep above in stock if for any reason you have difficulty in obtaining supplies, please send postcard direct to us, and a lists will be sent to you by return.

NATURAL FOOD COMPANY, Ltd., Cambridge Road, Bethnal Green, LONDON, E.

All advertising matter—Booklets, Window Displays Snowcards, etc., free on application.

N.B.—Our goods are to be sold only at prices stated upon the Price List we issue to the trade, and we are pleased to exchange any article which may be out of condition. When consulted about

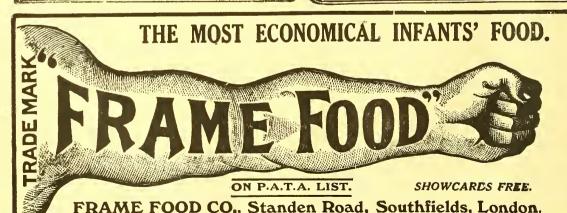
Diabetic Foods

remember the advantages of the "ENERGEN" Brand.

Prescribed by leading Specialists. Carry a good profit to the Chemist. Inquiries invited.

Therapeutic Foods Co.

19c Roundwood Road, Willesden, N.W. 10.



VITMAR

THE NEW FOOD FOR GROWING CHILDREN

is now in great demand

Chemists can obtain it from their Wholesalers

RETAIL PRICE

2/3 per jar

WHOLESALE PRICE

21/7 per doz.

76/10 ,,



MANUFACTURED BY

CALLARD & CO.

CALLARD, STEWART & WATT, LIMITED,

Food Specialists,

74 REGENT STREET, LONDON, W. 1.

MINERAL WATER APERIENT



P.A.T.A.

2/6 per doz. Empty Bottles

returned Carriage Paid, to our Factories

Standardised & Bottled by CAMWAL, Ltd., at their Spring at Harrogate.
Supplants Apenta, Hunyadi-Janos and German and Austrian Waters of similar Character

Of all Wholesale Houses, CAMWAL

LTD.

HARROGATE, MANCHESTER, BIRMINGHAM, BRISTOL. MITCHAM, LONDON, & DEPOTS.

Special Export F.O.B. quotations, including packages.

Sells readily ALL the time.

COLEMAN & CO., Wincarnis Works, NORWICH.

IMPORTANT NOTE TO CHEMISTS WITHOUT LICENCES

It has been established by law that Registered Chemists may sell "Wincarnis with Quinine" without a licence.



Ashless Fil

to replace German and Swedish makes. 589¹.—589². 5893-207. No. O-No. IF.

SOXHLET THIMBLES. FOLDED FILTER CIRCLES, etc.

For Samples and Prices apply to any of the leading Laboratory Furnishers.

Makers-

J. BARCHAM GREEN & SON. Hayle Mill, Maidstone, England.

hotographic Season FOR THE

> We have New Designs in Hypo. Cartons, Film and Plate Envelopes. We shall also shortly have a new up-to-date series of real good photographic advertising matter.

> Interested Photographic Chemists are recommended to make an early application for samples.

Send 10/6 for Full Set of Samples to Colonies, which is credited on orders of £10 and upwards.

Thomas Waide & Sons Chemists' Printers, LEEDS.

Potter & Clarke's Original Specialities



CREAMS

A Revolution in Medicated Lozenges.

Raspberry Sulphur Creams.
Sulphur Figs.

ONLY SHOW THEM.
THEY SELL THEMSELVES.

1/11 per lb. 28 lb. 1/10 112 lb. 1/8½ 56 lb. **1/9**

ALL-THE-YEAR-ROUND CONFECTION.

SIMRO'S WHITE ALPINE MINTS

A delightful Peppermint-flavoured Cream, made with pure Sugar and the Finest Peppermint Oil.

A PURE & WHOLESOME SWEETMEAT FOR YOUNG & OLD.

PRICES:

1/10 per lb. 28 lb. 1/9. 56 lb. 1/8. 112 lb. 1/7. Retail 2d. per oz., 8d. $\frac{1}{4}$ -lb.



Medicated Pastilles.

OUR OWN MANUFACTURE.
PREPARED ENTIRELY WITH THE FINEST GUM ARABIC

BLACK THROAT PASTILLES. BLACK ANTISEPTIC PASTILLES.

If ordered "Throat Pastilles," our ribbed shape sent.
If ordered "Antiseptic," small oval shape sent.

CHILDREN'S THROAT PASTILLES. EUCALYPTUS GEMS. CHLORO-PINES (our speciality).

LINSEED, LIQUORICE and CHLORODYNE.

The best and strongest on the market.

2/8 per lb, Packed in 4lb. tins. 16 lb. 2/6. 28 lb. 2/5.

EUCALYPTUS and MENTHOL PASTILLES, 3/- per lb.

POTTER & CLARKE, LTD.

60/64 ARTILLERY LANE, LONDON, E.1.

And at 24 LUNA STREET, GREAT ANCOATS, MANCHESTER.

Good Profits Rapid Sales

BY SELLING

G.O.

(No Sugar Required).

THE BUSY SEASON is approaching rapidly. Place your order NOW for G.O. Lemonade to prevent delay and disappointment later on. Our new 1/3 Tin is going to be a "big seller." It makes 2 gallons of splendid Lemonade, and keeps its full flavour almost indefinitely.

BONUS PARCELS may be varied to customers' requirements so long as they total 50/- value.

Phone-GREENWICH 947.

The two following suggested BONUS PARCELS comprise all the Sizes and show you a clear Profit on Turnover of over 331 per cent.

No. 1 Parcel.—1 gross 2d. 9 dozen $3\frac{1}{2}d$. = 10 6 1 dozen 1/3

10

6

(1 dozen 6 d. free in payment for display).

No. 2 Parcel. $\frac{1}{2}$ gross 2d. = 7 dozen $3\frac{1}{2}$ d. = 8 17 1 dozen $6\frac{1}{2}d$. = 2 dozen 1/3

> 9 11

1 dozen 6½d. free in payment for display. Sent Carriage Paid direct for Cash with order, or through your Wholesale House.

The GREENWICH LEMONADE

NOTE ADDRESS-11 JOHN PENN ST., LONDON, S.E. 13.

BURROW'S MALVERN WATERS

(Bottled only at St. Ann's Well, Malvern) BRITISH and BEST of TABLE WATERS.

"MALVERNIA" (Molly). — A sparkling and alkaline Table water. A perfect water for mixing with Wines and Spirits highly recommended by the medical profession.

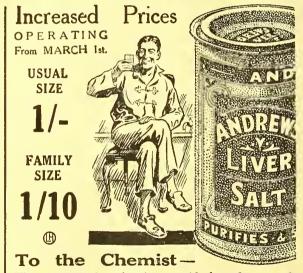
A SPARKLING AND ALKALINE TABLE WATER.
The Water with a "bite."

" MOLLY."

BURROW'S GINGER ALE, LEMON-ADE, GINGER BEER, prepared with the MALVERN Water, and only the purest and most reliable ingredients employed.

Price List and all particulars may be had upon application to:—W. & J. BURROW, LTD., THE SPRINGS, MALVERN; or from the Sales Management, LONDON STREET, PADDINGTON, LONDON, W. Telephone Padd. 1810.

Distributing Centres: London, Liverpool, Brighton, Southampton, Newcastle, Leeds



These new Andrews' prices provide for a larger profit margin than before. Ordering by the gross, the profit is 25% on both sizes (3d. and 51d. per Tin respectively). Andrews' Liver Salt gives its users the satisfaction which makes them buy again—regularly. If you already sell Andrews', you will know that this is so.

In case you have still to make the acquaintance of this quarter-of-a-century-old Home Medicine, we invite you to write for a free tin for your personal Trial, and our Trading Terms.

SCOTT & TURNER, Ltd. Manufacturers(Dept."C.D.")
Newcastle-upon-Tyne, Eng.

LONDON DEPOT :-I. C. Gambles & Co., 49 Farringdon Street, E.C.4. "BELL & DRAGON"



Health Salt

IN DECORATED TINS.

We are now in a position to offer prompt delivery for New Stock for the ensuing season.

Inquiries are invited. Quotations on application.

"Corbyn's Post."

A short monthly list of pharmaceutical products for the use of chemists supplied at advantageous prices.

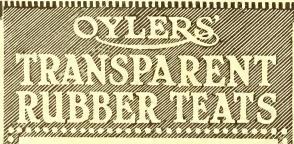
CORBYN, STACEY & CO., LTD.

Brunton's Wharf,

673 Commercial Road East, LONDON, E. 14

Telephone No.: East 1833.

Telegrams: "Colocynth, Step, London."



ENSURE PROTECTION

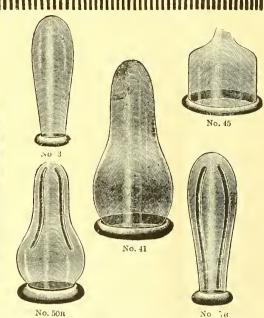
IN THEIR PARTICULAR PROVINCE as they are of the best manufacture, standing all tests, including boiling—are easy for the baby, and possess the characteristics of great clearness. All parts accessible and durable.

SPECIAL DESIGNS FOR SPECIAL HOME AND OVERSEAS MARKEIS.
Write at once to your wholesaler and get the share of the business in your district.

OYLERS:

35 New Cavendish St., Harley St., London, W.1. Wires: "Oylerism, Wesdo. London."

Phone: Mayfair 36 & 37.



WE OFFER FROM STOCK

WHIRLING SPRAYS



Finest stout Rubber Ball and Vulcanite Mount. In Red Velvet and Red Enamel finish. Each in box.

54/- per dozen.
3-dozen 1 ts and upwards,
51/- per dozen.

ARTHUR BERTON, Ltd.

15/17 WORSHIP STREET, E.C. 2.

LONDON, MANCHESTER and GLASGOW.
Telegrams: "Aybelim, Finsquare, London."
Phones: London Wall 507; City 598.

REAL SILVER LEAF

As supplied for many years to the leading Houses for Pills, Cachous, &c.

We also supply

GOLD LEAF AND GOLD POWDERS

WHOLESALE ONLY.

E. WINTER & CO. LTD.

Head Office: 64 Cheapside, London, E.C. 2.

TELEPHONE: Central 985.

"TAPON"

(Regd.)

Tie up your Parcels with Advertising Tying Tape. Pleases both Eye and Pocket and gives Distinction to every Parcel sent out.

Various Colours and Widths. Printed or Plain.

Write for particulars when Prices and Patterns will be forwarded.

S. D. SIMOND & CO., LTD.

10 Monument Street -

· E.C.3

Tel. : Avenue 6378.

Telegrams: "Duncasim London."

SPONGE BAGS

				Sizes	1	1	2	- 3		4	5	6
No.	978.	Sponge Bag,	Check Sheeting	per doz.	7	0	8 6	10	0 1	2 0	14 6	18 0
"	978.	,,	" Super Best	,	9	0	10 6	12) 1	4 6	16 6	20 0
			Assorted Fancy Colo	ours "	1,1	6	14 0	16	0 1	9 0	21 6	26 0
77	1200.	"	Brown, Double Fa	iced		- 1						1
		Sheeting		*** ,,	11	6	14 0	16	$0 \mid 1$	9 0	21 6	26 0
92	1200.	Sponge Bag,	Battiste Sheeting	*** ,,	11	6	14 0	16	0 1	9 0	21 6	26 0
22	1534.	22	with one extra pocke	et (size 4)								
		- ,,	with two extra pocke	ets (,, 5)			***	***			9.9	42 0
Sizes 16×16 in. 18×18 in. 20×20 in.												
1203	Spon	ge Wrap wij	th Pocket Check She	eeting .			per do	z. 18	0	21	0	24 0

BATHING CAPS

	Sizes	1	2		3	4			
No. 976. Circular Bathing Cap, Check Sheeting	per doz.	7 6	+ 9 ()	11 6	13	6		
" 428. Helmet Shape Cap, Red Rubber, Lined Band,	6 sizes	•••			per doz	27	0		
SPECIAL LINE Cap, Finest Para Rubber, Assorted, 4 Colours, decorated, with frills, rosettes, etc. "									
", ", Finest Para Rubber, Larger Caps, Assort	ed, 8 Colo	ours			*** ,,	30	0		
Bag for Bathing Costume, Waterproof Sheeting ,,									
WATER WINGS, Full Size, Best Quality, British Make					*** 33	24	0		

We are the right House for BRITISH-MADE GOODS—Anti-Rheumatic Rings, Bandages, Belts, Catheters, Clinical Thermometers, Combs, Enemas, Elastic Hosiery, Hot Water Bottles, Pessaries (Quinine), Rubber Sponges, Splints, Sponge Bags, Tooth Brushes, Trusses, Water and Air Beds, Water and Air Cushions, Waterproof Sheeting, and every description of Rubber Goods. ILLUSTRATED PRICE LIST POST FREE. OUR GOODS ARE RIGHT. MONEY BACK IF NOT SATISFIED.

LONDON, E.C.1

ELASTIC GUM SURGICAL INSTRUMENTS.



Catheters and Bougies, in Black or Brown Gum, and Finest Silk Web. Specula, Rectal and Œsophageal Instruments, Horse Catheters and Cattle Probangs. Wholesale and Export only. Price List from the Manufacturers.

MASON BROS. & CHAPMAN, 107 Whitecross St., LONDON, E.C.I.

Phone City 8246. Telegrams: " Orubelarco, Phone, London." THE LONDON RUBBER Co.,

> 183 Aldersgate Street, London, E.C. "ELARCO" BRAND

Soothers, Bottle Teats, Enemas, Whirling Sprays, Syringes, Tubing, Sheeting, Sponge Bags, Bathing Caps, Water Wings and every description of Surgical Rubber Goods.

PRICE LIST ON APPLICATION.



HUTSEDE

on orders of 30/-upwards

21 % discount

for cash in seven days

Sole Makers: The Kutseal Co.

Blackpool.

Court Plaster OF ALL CHEMISTS

The Liquid Antiseptic

TRIAL BOTTLE POST FREE ON RECEIPT OF

LONDON AGENTS:

The S. W. K. Co., 1 Portsmouth St., W.C. 2

SOISSORS OLIPPERS INSTRUMENTS.

WEEZERS & FORCEPS.--Special quotations to large buyers.

HENRY W. SCURR, HENRY RD., SLOUGH

SHERBORNE & CO.,

Surgical Appliance Manufacturers.

Manufacturers of Surgical Abdominal Belts, Ladies' and Gents' of every description. WHOLESALE ONLY.

HONOR OAK PARK, S.E. 23. Phone: Sydenham 517.

For GUARANTEED

ATOMIZERS and SPRAYS

THE DEVILBISS Co., LIMITED, 71 NEWMAN STREET, LONDON, W. I.

SURGICAL COTTONS SURGICAL SILKS HOSPITAL SHEETINGS RUBBER SHEETINGS BATISTES

EDWARD MACBEAN & Co., Ltd.

Manufacturers of Oil-proofed Cloths of every description. London Office - 6, 8 Lime Street Square, E.C. 3.

123-125 Howard Street

GLASGOW.

Telegrams { "Diamond Glasgow." "Stormproof, Led, London."

Telephones { 8387 Central. 1995 Central.

Real Good Lines

Pumisope "The Hand Cleaner."

Dry Cloth-cleaning Balls

Precipitated Chalk

Prepared Chalk

Fancy Boot-top **Cleaning Balls** (All Colours)

Magnesia, Rouge,



HANCOCK'S,

"The Factory," OLD BATTERSEA, S.W.11. WHOLESALE: Write for QUOTATIONS.

FOOT

such as Corns, Bunions, Callouses on the Sole, Flat Foot, Cramped Toes, &c., are increasingly prevalent owing to unaccustomed War Work,



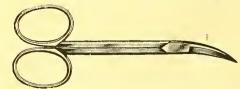
are the result of years of experience devoted to the treatment of Foot Ailments by Dr. Scholl, and are to-day recognised as the most perfect corrective devices on the Market. They are in constant demand, and all Chemists will find it profitable

to stock them.
Send for Wholesale Price List.

THE SCHOLL MFG. CO., Giltspur St., E.C.

"INTRINSIC" Brand (HIGHEST GRADE)

SCISSORS SURGICAL



Amputating. Dissecting and Veterinary Knives, Symes, Scalpels, Bistouries. Lancets. Chiropodists' Knives, Corn Planes, etc.

John Milner & Co., Orient Works, 36-38 Matilda Street, SHEFFIELD (Est. 1842).



BRITISH GROWN



LONDON PRESSED

COMPRESSED MOSS

SPHAGNUM.—The Turf Moss is the most absorbent and generally useful surgical dressing. It absorbs twenty times its weight of moisture.

As compressed by us in sheet form it is pre-eminently convenient. The sheet may be used as it is, or loosely crushed and placed in extemporaneous muslin bags.

The moss in this form swells up the moment moisture comes in contact with it, and the dressing so formed is resilient, spongy, and comfortable to the patient.

Being compressed, it is ideal for storage and transit.

SAMPLES AND PRICES AT YOUR DISPOSAL.

W. MARTINDALE

10 New Cavendish Street, London, W.

· Telegrams;

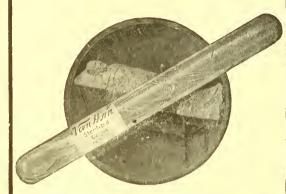
"Martindale, Chemist, Wesdo, London" (3 words).

Telephones:

GERRARD 468; PADDINGTON 1797.

The thought behind the

"the patient on the table"



Not "good enough," but the best from every standpoint—alone assures that degree of "Catgut Safety" demanded when the patient on the table is "one of my own family."

Only on this peculiarly personal basis is

"VAN HORN," CATGUT

supplied to the Profession.

VAN HORN Obstetrical Suture

(Chromic Gut)

K-Y Lubricating Jelly

An Ideal Emollient.

K-Y Analgesic

The Greaseless Anodyne.

Van Horn & Sawtell Depart
New Brunswick, N.J., U.S.A.

Agents:

JOHN TIMPSON & CO., LTD. 104 Golden Lane, London, E.C. 1.

RUBBER CORKS

IMPORTANT

It is not generally known that Corks made of Rubber are to-day 25% cheaper, are more serviceable, reliable, and give greater sealing facilities than any other kind. We specialise for the requirements of the Chemical Trade and manufacture all standard sizes.

Drab Drab Ammonia Proof. Acid Proof.

Prices for 8-oz. Bottles ... 3/3 4/3 per gross

16-oz. ,, ... 4/9 5/9 ,, Other sizes—Prices on Application.

SPECIAL PRICES FOR LARGE QUANTITIES.

We also manufacture BUNGS for ½-gall. and 1-gall. Jars.

RED & BLACK RUBBER CORKS of the Best Quality for Laboratory use.

Inquiries Solicited.

Garden City Rubber Company

Manufacturers of all Rubber Specialities for Medical, Chemical & Laboratory use,

Letchworth, Herts.

Telephone: Letchworth 54. Telegrams ! "Rubber Letchworth."

NEW PRICES

OF



Increased cost of manufacture compels a rise in the prices of "New-Skin" as follows:

Pocket Size 10½d.
Medium , 2/Physician's , 3/
\$\frac{10^2d}{2}\$ Corresponding Increase in Trade Prices

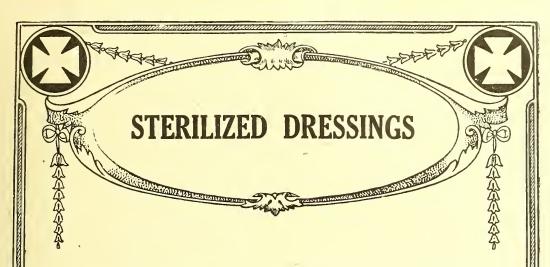
Trade Prices

8/5
19/2
28/9½
23 and upwards Carriage Paid.

MODERATE STOCKS ARE NOW IN HAND.

Order through your Wholesaler, or direct-

J. E. GARRATT,
96 SOUTHWARK STREET, LONDON, S.E.I.



For Surgical and Accouchement purposes you cannot do better than offer

"ZORBO" Regd. Brand STERILIZED COTTON WOOL

in Tins (2-oz. to 1-lb.)

AND

:: STERILIZED GAUZE

in Cartons 1-yd., 3-yd. & 6-yd.

PARTICULARS ON APPLICATION.

London Warehouse:

151/7 Goswell Road, E.C.1.

ROBERT BAILEY & SON, Ltd.,
SURGICAL DRESSING MANUFACTURERS,
MARRIOTT STREET MILLS, STOCKPORT.

CABLES UNDISPUTED STOCKPORT, CODE ABC 5TH EDITION



Why Demand is still Growing.

Demand for the Nestlé Feeding Bottle is still growing—and it is growing because it is superior to any other feeder on the market. Its many advantages are so evident that mothers, thinking of the safety and comfort of their babies, are insisting upon the Nestlé Feeder.

The teat and rubber valve of the Nestlé Feeder are made with inner rolls which automatically cling and cannot be pulled off by the child. There is not the usual danger of swallowing the teat as in many other feeders. Pure plantation-rubber is used in the manufacture of the teat and valve. Colic is prevented by the rubber valve regulating the flow of air behind the milk. This valve also ensures a steady milk flow in accordance with baby's need.

The central base, tapering flat under surface of the virgin glass feeder enables it to be tilted to, and remain in, any desired position. This saves the time usually occupied holding the feeder. It holds more—the feeding capacity is 10 oz.—sufficient for any child at one feed.

NESTLE Feeding Bottle

Every part of the Nestlé Feeder, including box, is British made. Every Feeder is sterilised before leaving the factory.

The margin of profit to you is good and the turnover rapid. Write us for full details and current Trade Price List.

NESTLÉ'S (Advt. Dept.),
6-8 EASTCHEAP, LONDON, E.C.3.

Effective, Showy, and Very Saleable

Losall's - - Ball-Room Floor Polish

For quickly producing a perfect Polish on Floors for Dancing.

Handsome three-coloured Enamelled Tin, Perforated Top.

P.A.T.A

Per Dozen, 13/6



LOFTHOUSE & SALTMER, Ltd.

Wholesale and Export Drug Merchants and Manufacturing Chemists,

HULL.



Give the Drummer the Lead

—display him prominently on the counter or in the window. He's leading hundreds of business men

to success and he'll lead you, too. Never heard of the Drummer? He's the little chap who is teaching thousands of English women the art of making old faded hangings and clothes like new by a simple operation of home dyeing.

An extensive advertising scheme has been prepared for 1920, and advertisements will appear in all leading weekly and monthly publications.

Take advantage of this publicity campaign by displaying Drummer Dyes prominently. Let your customers see that you are one of the many shopkeepers who realise the economy and necessity of

Drummer Dyes

A parcel of attractive advertising matter and full trade particulars will be sent to those who wish to further increase their business.

Wm. Edge & Sons, Ltd., Bolton



<u>ու Նեկ Ֆետի Արմի ֆիտի հիրա անդական արանի անդանան անդան անդան անդան անդան անդանան անդան անդան անդան անդան եր ու</u>



Where can I get one like it?"

"Oh! you'll see them in X's windows.'

A sure business bringer

TO sell a Sorbo Sponge is like sending out a really first-class circular. It brings new business. A customer who takes a Sorbo Sponge home is justly proud of her purchase, and when friends ask where they can get Sorbo Sponges she sends them direct to the shop with the Sorbo display.

Soap improves them and they improve with use.

Thousands and thousands of pounds are being spent this year to advertise Sorbo Sponges and create a national demand for the finest rubber sponge in the world. Week after week sales of Sorbo Sponges will go up, and that increased trade will be permanent. It will certainly pay you to order your stock now so that you can benefit by the big demand from the very first.

Send a trial order to-day and display Sorbo Sponges, A parcel of three dozen assorted sponges will show you 33\frac{1}{3} \% profit.

YOUR WHOLESALER CAN SUPPLY



THE MOST ABSORBENT RUBBER SPONGE

Protected Retail Prices:

No. 1, 1/3; No. 2, 2/-; No. 3, 3/-; No. 4, 5/-: No. 4R, 7/6; No. 5, 10/6

SORBO RUBBER-SPONGE PRODUCTS, LIMITED, 24, Walbrook, London, E.C.4.

Telephone: CITY 9372

Sorbo Sponges will

be exhibited at The Chemists' Exhi-

bition, Northampton

Polytechnic Institute, St. John Street,

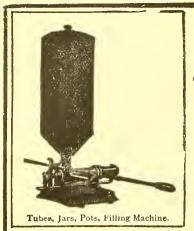
Clerkenwell, Stand

120, Hall B, April

12 to 16. Make a

special note to call.

Telegrams: Osorbeau, London.



The "CENTRAC" **Machines**

for filling bottles, collapsible tubes, pots, jars, etc, and for closing collapsible tubes.

Hand or Power Driven.

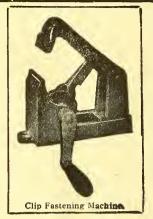
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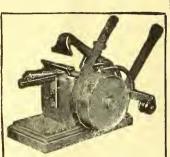
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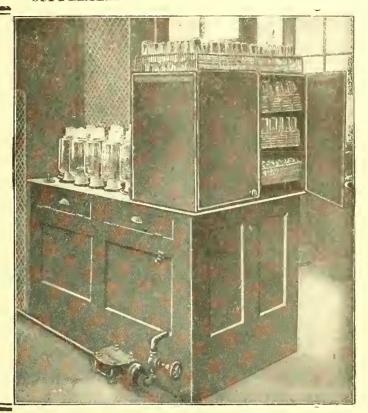
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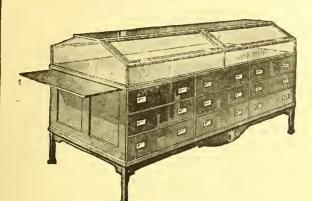
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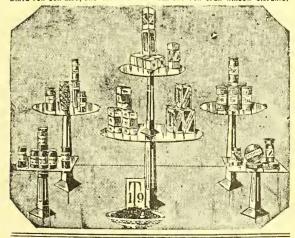


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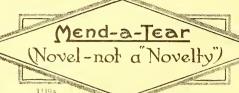
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#### [HOME.]

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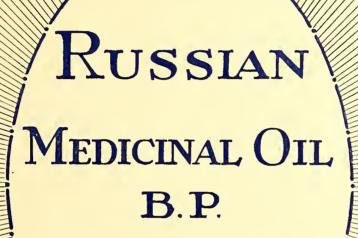
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